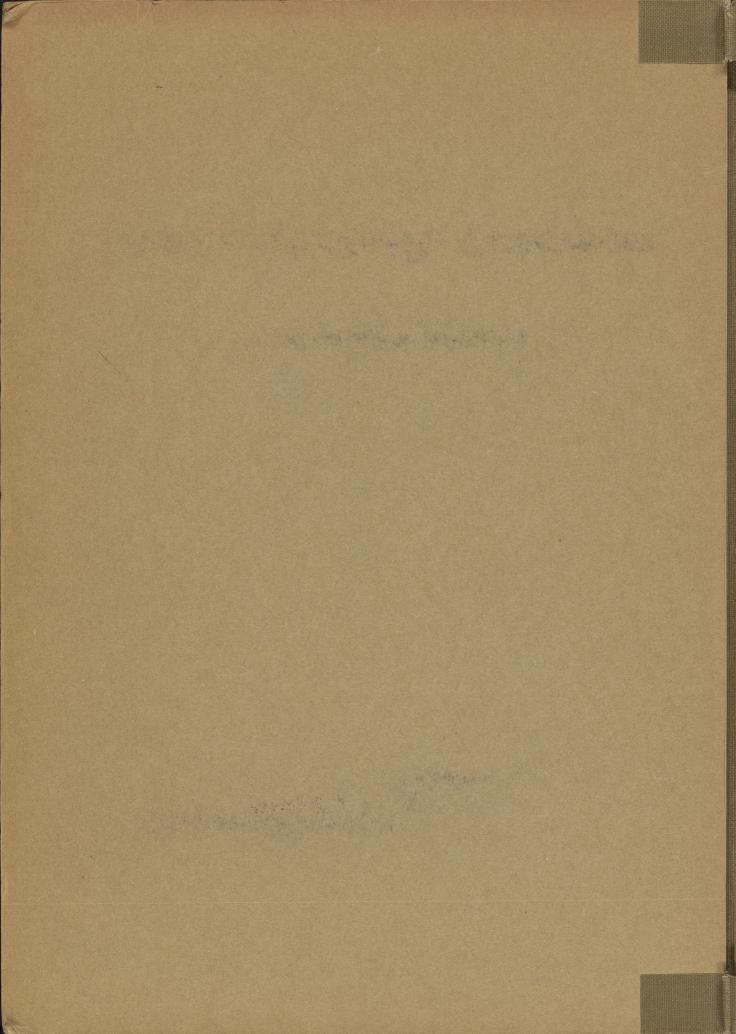
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Form 406

U.S. DEPARTMENT OF AGRICULTURE

FOREST SERVICE



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VEGETATIVE READINESS STUDY

Bitterroot National Forest

1938

Approved:

E.D. Sandvig
Assistant Regional Forester.

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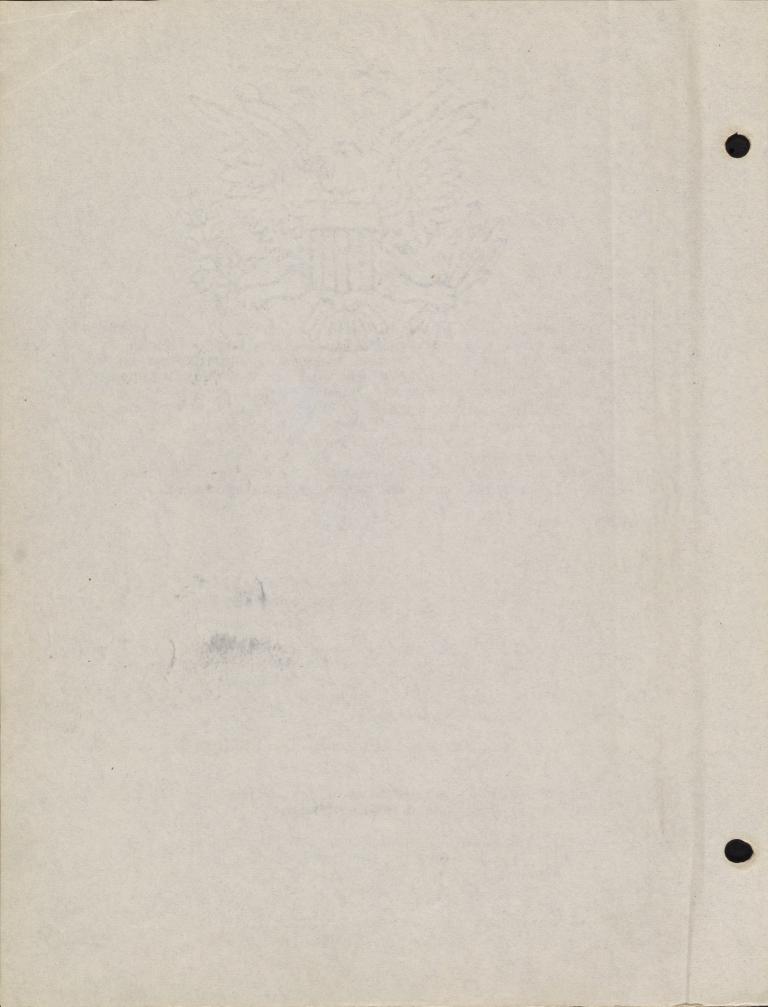
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SUMMARY OF STUDY

From May 1 to June 3, 1938, a period study to determine the dates of vegetative readiness and the best methods of management of spring and summer ranges was conducted in the Bitterroot Valley. The area studied is the most intensively used of any of the Bitterroot ranges. The spring range area is very limited and consists mainly of small grassland areas cut off from each other by timber. Owing to their limited size, these areas have been subjected to extreme use. The use of these ranges has been too early in the past. The study indicates that it will be necessary to set opening dates from 15 to 30 days later than the present opening dates.

Conclusions

General

- 1. Approximately 85% of the cattle ranges are within timbered types, the remainder being grass, browse, and meadow types.
- 2. The bulk of the cattle range lies between 4000' and 6000' in elevation, the lower limits of which are steep and difficult for cattle to use, while those at the heads of side drainages and on intermediate and spur ridges are more rolling and accessible.
- 3. True creek bottom ranges are limited and do not play an important part.
- 4. The cut-over yellow pine type is the most important part of the spring and summer range.
- 5. All exposures were found on the ranges studied, but south and west exposures are by far the most important from a grazing standpoint, since at least 80% of the usable range occurs on these.
- 6. Range management is made difficult by the large percentage of privately owned land found within the cattle ranges.

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 - 5. True creek bottom ranges are limited and do not play an important part.
 - 4. The ent-over yellow pine type is the most important part of the string and summen range.
 - p. All exposures were found on the reases studied, but south and west exposured are by fer the most important from a grazing stendpoint, since at least 30% of the name tenge occurs on these.
 - 6. Hange menerement is made difficult by the large percentage of privately owned less found within the outlier

- 7. Past use over the entire area has left the range in approximately the following condition: 5% depleted, 15% overused, 50% properly used, 30% lightly used.
- 8. Disturbance caused by logging and slash burning have brought about the introduction of poa, cheat grass and weeds in many places.
- 9. Recent and current heavy fall of bug-killed lodgepole on the high cattle ranges has and will cause reduction in grazing capacity and difficulty in distribution of stock for some years on these areas.

Stockmen

- 1. All of the ranches comprising true economic units are capable of meeting new and later opening dates (2 to 4 weeks) as shown this spring (1938) on the East Fork Division, when the opening date was advanced to May 15 and stock were fed during this period.
- 2. Several of the ranchers interviewed expressed their belief that the opening date should be later (Frank Cash, and Wakeham and Richardson), but small permittees without sufficient hay will protest any set-back in the opening date.
- 3. Alfalfa and native hays are the chief feed supply during the 4 to 5 month feeding season. During the additional 1 to 1-1/2 months while off the Forest, stock are turned on cut meadow hayland and other pasture.

Range Management

- 1. A salting plan designed to utilize the lower bunchgrass slopes is urged. These low areas reach readiness early in the season and are seldom used by the cattle which pass through to salted areas on intermediate and high ridges. Early salting on low areas should be followed by progressively salting toward higher ranges as the season advances.
- 2. Salt should be placed on spur ridges rather than on main ridges. Heavy utilization along main ridges is the rule over the entire area studied.
- 3. Herding will be instituted this year by the Three Mile Stock Association. This should be closely supervised by the ranger on the Stevensville District until the correct herding practices have been instituted.

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- 4. Water developments are needed on several of the divisions to eliminate trailing and secure better distribution. As a rule, the Bitterroot ranges are well watered.
- 5. Close attention should be paid to distribution of stock on the range. Cattle should be pushed up the various side draws in small groups in conformity with the grazing capacity of each and dropped at the salt ground, rather than dumping them at the forest boundary. Buch of the range is lightly used simply because cattle have never been placed upon it and the rough character of the range prohibits their finding it themselves.
- 6. It was observed that hillsides over 50 percent in steepness receive little, if any, use by cattle. Effort should be made to obtain utilization of these through better management of stock. If this is not possible, their capacity should be deducted from the total of the allotment.

Dates of Readiness, 1938

- 1. Range readiness for 1938, within the main Bitterroot Valley, occurred on May 20 on all of the spring ranges.
- 2. The Meadow-Tolan Creek Management Unit was found to be ready at least two weeks later than areas of similar altitudinal range. This is due to its north and northwest exposure. A June 1 opening date is recommended for this area.
- 3. The Fales Flat range on the West Fork Division presents a problem in that the small parks are badly overused. Either this range should be stocked to the capacity of these small parks, or they should be fenced. Salt should be placed in the timber, never in the parks. Eventual removal of cattle from this area is recommended.
- 4. South exposures were first to reach range readiness, followed by west, east, and north exposures in the order named. The spread between dates of range readiness as between south and north exposures is as much as three weeks in some cases.

Average Date of Readiness

The long-time average was determined by Lommasson's method "Air Temperatures as an Index for Vegetative Readiness". This showed the average date of vegetative readiness on the Bitterpoot spring ranges to be May 15. The years 1899 to 1938, inclusive, were used in computation of this date. (In 1939 the date of readiness was May 4. This effected the average date of readiness less than one-half day and did not change the average).

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G STUDIES Range Readiness Bitterroot, 1938

GENERAL

1. Object

The object of this study was to determine the opening dates for grazing on all of the low ranges within the Bitter-root drainage, using vegetative readiness as an indicator; the separation of these ranges into areas by elevational zones having different dates of vegetative readiness, and the harmonization of these elevational zones into units suitable for the practical handling of stock during the spring and summer grazing periods, together with recommendations on management problems and range improvements that will aid in obtaining proper seasonal use.

2. Divisions Upon Which Conducted

The ranges covered on this study are all contained within the Bitterroot drainage. The ranger districts included were Stevensville, Darby, East Fork and West Fork.

For the purpose of this study, and since no divisions have been set on this Forest as yet, the examiner has named them as follows:

Stevensville Ranger District - North End Division

Darby Ranger District - Darby Division

East Fork Ranger District - East Fork Division

West Fork Ranger District - West Fork Division

Due to the differences between the ranges on the east and west sides of the main Bitterroot Valley, and to the broad strip of private land lying between them, it will probably be necessary, when setting up final management plans, to deparate the ranges on the west side from those on the east side by divisions or subdivisions.

Primarily, the low ranges examined are used by cattle and horses since this class of stock has been assigned to the spring and summer ranges.

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riserily, the low remain examined are used by cautie and horse alone with alone as a book as book as to the surface of current ranges.

3. Dates of Study

The study began on May 1 and continued until June 4.

June 13 to June 16 was spent in compiling data gathored during the field studies. August 3 to August 6 was spent in determining the average date of vegetative readiness, using the "Air Temperatures as an Index for Vegetative Readiness" method.

4. Coneral Character of the Country Examined

In general the range areas examined on the Bitterroot were steep and mountainous in character. Approximately 85% of the area used by cattle as spring and summer range is within timbered types; grass types, and a small amount of browse type, make up the remainder. On the east side, the west and south exposures are predominant as forage producers. On the west side, east and south exposures carry the greater portion of usable range. All of the creaks flow toward the Bitterroot drainage. They are deep and bounded by cliffs and steep side walls which sometimes act as barriers. Non-usable range is found on the north and east slopes.

5. 1938 Season - Variation from Normal

According to information gathered from Forest officers and local ranchers, the 1938 season was at least 10 days later than normal although some informants declared the season to be from two to three weeks later than normal. From observations and information gathered, the writer believes the season to be not more than 10 days behind normal over the greater portion of the area covered.

6. Feeding Conditions Around Area Concerned

The permittees using national forest range on the Bitterroot vary in their ability to meet changes in opening dates. Within the Sula Basin, the ranchers are chiefly dependent upon native grass meadows for their hay supply. From 1-1/2 to 2-1/2 tons of hay per snimal unit is fed during the 4 to 4-1/2 month feeding season.

Within the main Bitterroot Valley the ranchers feed alfalfa hay raised on irrigated meadows. From 3/4 to 1 ton of hay is fed during the 4 month feeding season.

The Frank Cash ranch, located near the Forest boundary on Skalkaho Creek, may be considered as a representative ranching unit. (See picture No. 33.) The ranch contains 1800 acres of land, of which 100 acres are meadow land and

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1700 acres pasture land. Three hundred fifty tons of hay are put up each year. The ranch supports 200 head of Shorthorn cattle and 18 head of horses. The feeding season is from November 1 to April 15. Mr. Cash usually keeps a reserve supply of 100 tons of hay. He does not sell excess hay. He is willing to be quoted that "May 1 is too early for grazing in the average year". He suggests a May 10 or May 16 opening date. The Cash ranch is operating at a modest profit and is a marked contrast to many shoestring outfits operating up and down the valley. All of the small outfits with from 10 to 30 head of cattle run short of hay about April 1 and turn cattle out at or before that time onto the range available. This type of permittee would have difficulty in meeting a later opening date.

The Wakeham & Richardson ranch, located near the mouth of Harlan Creek, is another ranch representative of the permittees in that area. It has 500 acres of land, of which 100 acres are bottom lands. They run 60 cattle and 10 horses. The owners informed me that they could feed until May 15th without difficulty.

In the East Fork area the May 15 season was put into effect this year. All of the ranchers succeeded in meeting the new opening date. However, some difficulty was encountered with those who did not sell off excess stock during the fall of 1937 because of poor prices. All of the ranchers who were commensurate for the number of stock carried were able to feed until the last week in May.

The users of forest range on the Bitterroot vary greatly in their ability to meet emergencies. All of the ranches on the East Fork District are economic units capable of surviving and prospering under ordinary circumstances. Such ranches as the Frank Cash and the Wakeham & Richardson in the Hamilton-Darby vicinity are also economically on a sound footing and can meet any reasonable change in grazing season. However, there are a number of shoestring outfits which cannot produce feed enough to feed until the present opening date and will protest any later date. The basic trouble lies in the size and resource of their units and an open season the year around would not remedy their ills.

Further study of these small units will be necessary before definite recommendations can be made regarding the small ranchers. Land use planning by the county, with the active aid of the Bitterroot Forest personnel, is leading toward a better economic arrangement in the Bitterroot Valley. The term of the control of the contr

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Principal Forage Species for Seasonal Units

Spring and summer range; Ponderosa pine, grass, and transition lodgepole types.

Grasses and Grasslike Plants

Elue wheatgrass Eluebunch fescue Bluegress Downy chess Junegrass Alpine timothy Pinograss Rough fesque Sedire

- Agropyron spicatum - Pestuca idahoensis

- Pos secunda - Eronus tectorum - Koleria cristata - Phloum alpinum

- Calamagrostis rubescens

- Pestuca scabrella - Carex geyeri

Treeds

Yarrow Sandwort Balsamroot Low Larkspur Shooting star Drymocallia Delsy Dog-tooth violet Stremberry Cernaium ... Alum root Wooly wood Wake-robin Nountain lily Lupino Horse mint

Beard tongue

Dwarf phlox Cinquefoil Wind flower Butteroup Golden reg wort - Senecio aureus Wooly groundsel Dandelion

- Achilles lanulosa - Aronaria sp.

- Belsemorrhize segittata - Delphinium bicolor - Dodecatheon cusickii

- Drymocallis sp. - Erigeron sp.

- Erythonium parviflorum

- Fragaria ap. - Gerenium sp. - Heuchera sp. - Hieracium sp. - Trillium ovatum

- Loucoerinum montanum

- Lupimus sp. - Monarda sp. - Pentstemon sp. - Phlox douglasii - Potentilla sp. - Anemone sp. - Ranunculus sp. - Senecio canus

Old-man's whiskers - Sieversia ciliata - Leontondon taraxacus

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Mountain maple Service berry Kinnikinnick Silver sage Big sage Counotinus Snowbush Mt. Mahogany Rabbit brush Doswood Oregon grape Chokecherry Bltterbrush Ross : Willow Snowberry

- Acer glabrum

- Amelanchier slnifolia - Aretostaphylos uva-ursi

- Artemisia frigida - Artemisia tridentata Ceanothus senguineus

- Ceanothus velutinus - Cercocarpus montanus

- Chrysothemnus lenceolatus

- Cornus sp.

- Odostemon acquifolium

- Prunus demissa

- Purshia tridentata

- Ross sp.

- Symphoricarpos sp.

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NORTH END DIVISION - WEST SIDE

1. Names of Units Falling Into the Same Seasonal Area

Spring and summer ranges:

(a) McClain Creek Cas (b) Bear-Big Creek Cas

(c) Blodgett-Fred Burr Call

2. Ceneral Topography of Each Seasonal Unit

These spring and summer ranges lie within elevations ranging from 4000' to 5000' on the Bear-Big Creek CaH and the Blodgett-Fred Burr CaH. The McClain Creek CaH, which is small and rather unimportant, has an elevation of 6000' at its highest point. These ranges are located on the toe-like formations which face east toward the Bitterroot Valley, and are connected with the main wall of the mountains which rise abruptly to elevations of over 9000' in five miles. All of the west side ranges are limited to a strip not exceeding three miles in depth and narrowing in places to one-half mile or less.

3. General Types and Their Relation as Regards Elevation and Exposure

Practically all of the renges within the Bear-Big Creek and Blodgett-Fred Burr Units are SYP cut-over type with .25 to .35 densities. Since most of the area has an east exposure there is no appreciable difference in types due to exposure although the north slopes carry less feed than the south and east slopes. The upper fringe of this range extends into 6DF type at the highest altitudes. A small area of 1 Bte-Fid-ART type is found on the McClain Creek C&H; exposure, SW.

4. Direction and Degree of Slope

These ranges slope in an easterly direction, varying in degrees from 5% to 60%. North slopes are, as a rule, steeper and less usable than south and east slopes. Within its confines, these ranges are more easily negotiable by domestic stock than most of the other ranges on the Bitter-root, average slope being 35%.

5. Water - Abundance and Character

All of the west side ranges are well supplied with water, the greatest distance to water not being over one-half mile. Creeks such as Big, Beer, Bass and Blodgett run the year around; the smaller drainages have water in them until

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late summer. In addition there are several springs. Irrigation ditches, running from the larger creeks to the valley ranches, make the water situation very favorable.

5. Examination of Forage Conditions Within the West Side Renge, North End Division

Plot 1. McClain Crack

NEISEL Sec. 17, T. 11 N., R. 20 W. Elevation 5500'. Slope SW, 50%. Rocky granite leam soil. 1 Ste-Fid-ART type, overused on open grass types. Located lever limits Zone 2. This area is small and high; estimated readiness June 1.

Date of Exemination	6-4-38	5-21-38	is of
Condition of Soil	Wet	Damp	
Common Name - Bluegrass Idaho fescus Wheatgrass Shooting Star Blue bell Dandelion Camas Wooly weed	: 1-3/4" :1-3/4" :Boginning growth	:40":forming heads :3" :4-3/4" :Hature and dying :Full flower :" :4" :92"	25

Plot 2. Bear-Big Creek CAH

SEISWE Sec. 22, T. S H., R. 21 W. Elevation 3800'. Slope SW, 10%. Disintegrated granite losm soil. 6YP cut-over with reproduction. Utilization 5%, 1938. This plot located in range disturbed by logging.

Date of Examination Condition of Soil	5-4-38 Weist	5-21-38 Demp	of Cover
Common Name -			a secondarion
Bluegrass	:2) ⁿ	:3"; seed stalks	
Junegrans	11"	: formed; in heed	: 5
Downy chess	11/2"	:3"; forming heads	
		: 16"; heads formed	
Arnica	:2/3 leaf	:Full leaf; flower	
Lupine	12/3 leaf	: Full leaf; flower	
Balasmroot	:20% in flower	190% in flower	
Yarrow	11/2 leaf	:Full leaf; forming	
Wooly weed	:1/2 leaf	Full lesf forming	
Comas	13"	: flower stalks	

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Plot S. Blodgett-Fred Burr CaH

NWiNE Sec. 5, T. 6 N., R. 21 W. Elevation 4400'. Slope East, 15%. Disintegrated granite rocky losm. 6YP cut-over with reproduction. Utilisation 1938, none. Located in lower half of Zone 1.

Date of Exemination Condition of Soil	5-7-38 Moist	5-20-38 Noist	% of Cover
Common Name - Wheatgrass	:6"	90	40
Idaho fescue	:11	13-3/4"	5
Bluegrass Downy chess	14"	16"; in head 13"; beginning to	5
DUMLY CLOSS	8	s hoad	5
Sedge	:3" :3/4 leaf	142"; in head Pull leaf; flowers	: 20
Lupine	1 TOUR	i in bud	
Dog-tooth violet	:Dying	:Seeds forming	
Yarrow	13/4 leaf	:Full leaf; form-	
Service berry	:1/2 leaf	:Full leaf	
Snowberry Balsamroot	:1/2 leaf :20% in bloom	:Full leaf	

Plot 4. Blodgett-Fred Burr Call

Swiski Sec. 20, T. 7 N., R. 21 W. Elevation 4800°. Slope East, 30%. Disintegrated granite soil. 6 YP-Pid-Gre type. Utilization 5%, 1938.

Date of Exemination Condition of Soil	5-7-38 Wet	5-20-38 Noist	% of	
Common Hamo -	1 4 /42	1 100	1	
Wheatgrass Idaho fescue	:3-1/2"	:6-1/2"	1 25	
Junegrass	:3-1/2"	14-1/2"	5	
Downy chess	:1-1/2"	12" forming seed	5	
Sedge	:3";flowers in boo	t heads b4";forming seed t heads		
Balsamroot	Deginning growth			
Wild onion	:Full leaf	Dying at tips		
Lupino	:3/4 leaf	:Full leaf; flower		
Buttercup	Rull flower	:Gone		
Yarrow	13/4 leaf	:Full leaf;forming:	*	

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7. Condition of Range as Result of Former Use

As a whole the west side ranges on this division were in good condition. The presence of downy chess (Brosss tectorum), Pos secunda and weeds indicates that the range has been disturbed in places. Brush disposal fires and concentration of cattle along ridges and ground watering places have caused some areas to be depleted. Of these west side ranges on the North End Division, 60% may be considered as being properly used, 20% lightly used, 15% overused and 5% depleted.

S. Soil Moisture Conditions

The soil moisture conditions on these ranges during the spring of 1938 were good due to the snows which fell on May 1 and again on May 16, 17 and 18. The soils examined ranged from damp to wet. No serious trampling of the soil was observed.

9. Conclusions as to Vegetative Reediness

Vegetative readiness arrived on the west side ranges during the period May 17 to 22. May 20 may be considered the date of range readiness on the McClain Creek, Bear-Big Creek, and Blodgett-Fred Burr CAH ranges for 1938.

10. Principal Forage Species for Spring and Summer Ranges, West Side Range. North End Division

Cut-over yellow pine types -

Grasses, 80%	Weeds, 15%				
Agropyron spicatum Calemagrostis rubescens Pestuca idahosnsis Koeleria cristata Poa sp. Carex geyeri Bromus tectorum Shrubs, 5%	25 15 10 5 5 15 5	Achillea sp. 2 Armica sp. 2 Balsamorrhise 2 Drymocallis 1 Geranium 1 Hieracium 1 Lupinus 3 Pentstemon 1 Leontondon teranacum 2			
Ceanothus sanguineus Prumus demissa Rosa Salix sp. Symphoricarpos	1 1 1 1 1 1 1 1 1				

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CONCLUSIONS ON SEASONAL UNIT

Since the average date of vegetative readiness for the period 1899-1938 was May 15, this date is recommended as an opening date for the west side ranges of the North End Division. Administrative leeway in opening dates will take care of yearly fluctuations.

1. Seasonal Zones

Only one seasonal zone was found to be important. This lies between 4000' and 5000'. Since these ranges extend above this level only in isolated cases, any further breakdown of the area into zones would be useless. However, all range above 5500' in elevation lies within a second seasonal zone. Range readiness within this second sone arrived about May 25, 1938, or five days later than the lower seasonal zone.

2. Water Conditions in Seasonal Unit

Water conditions are excellent in both seasonal units except for the McClain Creek area which is dependent upon one source of water close to the McClain Creek-Lolo divide.

3. Soil Moisture Conditions

Soil moisture conditions were good during the 1938 season in both seasonal sones. Ground moisture varied from wet to moist.

4. Stocking on Bait

McClain Creek C&H - 10 head horses permitted; season, May 1 to October 31. None observed on area during studies.

Bear-Big Creek CAH - 35 head of cattle permitted for 6 months, sesson May 1 to October 31. Twenty cattle and four horses observed on area.

Blodgett-Fred Burr Call - 9 head permitted for season May 1 to October 51. None observed on area.

5. Estimated Carrying Capacity

Heclain Creek CaH - 10 head for 60 A. H. Bear-Big Creek CaH - 30 head for 180 A. M. Blodgett-Fred Burr CaH - 10 head for 60 A. N.

5. Range Improvements Becessary to Obtain Seasonal Control

No range improvements are necessary to obtain seasonal control since the greater portion (90%) of the ranges lies

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within one seasonal area. However, several range improvements are necessary in order to prevent trespass and gain better distribution.

McClain Creek C&H

The only available water on this range lies on Forest land at the head of the North Fork of McClain Creek. Stock from Lolo Creek on the Lolo National Forest drift up to the divide and into the McClain Creek range. An interforest allotment should be set up, or a drift fence approximately 1/2 mile long should be constructed on the Lolo-McClain Creek divide. This area should be put under a G-3 permit as the greater portion of the McClain Creek range is under private ownership but is dependent upon the water controlled by the Forest Service. This range is essentially a horse range as it is rugged and cattle have to travel too far to water.

Bear-Big Creek Call

Development of spring at head of Psulkerson Creek.

Completion of boundary fence on ridge between Sweathouse and Smith Creeks to prevent trespass.

Blodgett-Fred Burr Call

Construction of boundary fence to prevent trespass. Location of fence, SE corner Section 33, T. 7 E., R. 21 W., west to quarter corner, then north 1-1/2 miles. This fence will book up existing fences.

7. General Recommendations for Obtaining Proper Use of Range

Salting

Salting should be done on the ridges, moving the salt higher as the season progresses to obtain better utilization of the higher portion of the ranges and stop overuse near the boundary.

Hording

None necessary, as range is too small and the number of cattle limited.

Pencing

Completion of existing boundary fences will prevent in drift of unpermitted stock.

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Water Development

Development of spring at head of Faulkerson Greek will give better utilisation in this area on the Bear-Big Greek range.

SUMMARY

1. Seasonal Units

Division or Allot-	Present	Recommended
ment, or Parts of.	Season	Season
McClain Creek	5-1 to 10-31	5-15 to 10-31
Bear-Big Creek	5-1 to 10-31	5-15 to 10-31
Blodgett-Fred Burr	5-1 to 10-31	5-15 to 10-31

2. Sessonal Zones

Zone 1, 4000' to 5500'; vegetative readiness, May 20, 1938.

Zone 2, 5500' to 6000'; vegetative readiness, May 25, 1938.

3. Recommendations

- a. Check observations recommended.
- b. Work out interforest permit for McClain Creek area, or fence the divide. The area is too small to warrant costly drift fence on the divide.
- c. Complete construction of boundary fences on Bear-Big Creek and Blodgett-Fred Burr ranges.
- d. Range survey of the area recommended.
- e. Determine whether use by game on the Blodgett-Fred Burr range part of which is incorporated in a newly established primitive area will cause conflict with domestic stock on the area.
- f. Acquire control of privately owned lands dependent upon McClain Creek water supply.

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NORTH END DIVISION - EAST SIDE

1. Hames of Units Falling Into the Same Seasonal Area

Spring and summer ranges:

- (a) Ambrose-Right Mile Call
- (b) Burnt Fork Call

2. General Topography of Rach Seasonal Unit

Both the Ambrose-Eight Mile and the Burnt Fork CAR Units are divided into two seasonal units. Although the division line between the spring and summer range and the strictly summer range is not definite, it can be roughly set at the 5000' contour interval.

Renges in elevation:

Spring and summer, 4000' to 5000' Summer (strictly), 5000' to 7000'

These ranges lie on the east side of the Bitterroot Valley, between the Bitterroot-Rock Creek divide and the private lands in the Bitterroot valley. All drainages flow in a westerly direction. The country is rough and broken by many streams and side draws. The area is characterized by long ridges commencing near the Forest boundary and extending eastward for an average distance of four miles to the Bitterroot-Rock Creek divide. The rise in elevation from the boundary to the divide is three thousand feet on the average. The larger portion of the grasable area lies within the spring-summer seasonal area which extends eastward from the forest boundary for a distance of about 1-1/2 miles. The rise in elevation is greatest near the forest boundary. After attaining an elevation of 6000°, the ridges level out and gradually rise to around 7000° in elevation, the average height of the divide.

3. General Types and Their Relation as Regards Elevation and Exposure

On the Ambrose-Right Mile range, at least 95% of the area is covered with tree growth, the remainder being grass-land. Up to an elevation of 6000', the 6YF type is by far the most important as it covers all of the south and west exposures. On the north slopes, a Douglas fir-larch-yellow pine type prevails. Above 6000' and up to 6500', a transition type of Douglas fir-yellow pine-lodgepole occupies most of the exposures. Between 6500' and 7000' the area is occupied by a lodgepole type.

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On the Burnt Fork Call Unit, which lies within the Sawmill Greek drainage, grass types occupy at least 20% of the area. These grass types are found exclusively on south and west exposures between elevations of 4000' and 6000'. The north slopes are covered by Douglas fir-larch-yellow pine types up to 6500'. Above 6500' the lodgepole type becomes predominant.

Grass types within the Ambrose-Eight Nile and Burnt Fork Call Units have an average density of .30. Within the cut-over yellow pine types on the Ambrose-Eight Nile Unit, the average density is .25.

Very little feed is available to cattle within the Douglas fir-larch type on the north slopes.

4. Direction and Degree of Slope

The entire Ambrose-Eight Nile and Burnt Fork CAN areas slope in a westerly direction. Slopes vary from 5% to 60%, with an average of 30%. South and west slopes contain the greater portion of usable range. North slopes are uniformly steeper than the others and are often cliff-like in nature close to the creeks.

8. Water - Abundance and Character

Water is plentiful except in isolated instances. All of the usable range is within from 1/2 to 3/4 mile to water. In some cases the water is hard to get at due to the fall in elevation from the ranges to water. All of the principal creeks - Woodchuck, Eight Mile, Three Mile, Ambrose and Slocum - run some water throughout the grazing season. The higher ranges are watered by springs starting close to the divide.

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6. Examination of Forage Conditions Within the East Side Range, North End Division

Ambrose-Eight Mile Call Unit:

Plot 1. Woodehuek Creek

Number Sec. 30, T. 11 N., R. 18 W. Elevation 5000'. Slope South, 20%. Gravelly granite leam soil. 6YP cut-over type. Not utilized 1938.

Date of Examination Condition of Soil	5-2-38 Very wet	5-23-38 Wet	Cover
Common Name - Bluegrass	:4-1/2"	15-3/4" forming	
Idaho fescue Sedge	:3"	13-3/4" 162";seed stalks	10
Hinebark	1/4 leaf	: formed :Full leaf	: 25
Rose Dog-tooth violet	:Beginning growth :Full flower	:3/4 leaf	

Plot 2. Eight Mile Creek

SEISWE Sec. 4, T. 10 N., R. 18 W. Elevation 5000'. Slope South, 45%. Rocky granite losm soil. GYP mature, Douglas fir and yellow pine reproduction. Unutilized 1938.

Date of Exemination Condition of Soil		5-2-38 Tet	8-23-36 Noist	is of Cover
Common Name - Wheatgrass Sedge	:5°		17gs 17gs 16gs in head	: 25
Balsamroot	:4";	flower in leaf	bud:95% flowered :Pull leaf	
Lupine	:1/2	loaf	:Full leaf;flower : in bud	1
		leaf in flower	:Full leaf :Full flower	

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Plot 3. Eight Mile Creek

SWISWI Sec. 32, T. 11 N., R. 18 W. Elevation 5400'. Slope 5W, 15%. Rocky disintegrated granite loam soil. 6YP cutover with reproduction. No utilization 1938.

Date of Examination Condition of Soil	5-25-38 Moist	of Cover
Cosmon Nesso -	建筑产业企业工厂	
Bluegrass	:4-1/2"; in head	: 0
	16-1/2"; in head	: 20
	:Full leaf; 40% flowered	* 19 8 6 6
	:20% in flower	
	:Full leaf	
	:Pull leaf; 10% flowered	
Yarrow	:Full leaf; forming seed stalks	1 - P. W. W. C.
INDIO CONTRACTOR OF THE PROPERTY OF THE PROPER	:Pull leaf: flowers in bud	A Common constituent of the Common

Plot 4. Three Mile Creek

NWISEL Sec. 17, T. 10 N., R. 18 W. Elevation 5200'. Slope, ridge top, south, 10%. Sandy loam. SYP cut-over, Douglas fir and yellow pine reproduction. No utilization 1938.

Date of Examination Condition of Soil	5-2-38	5-25-38 :5 of :Cover
Common Name - Bluegrass Wheatgrass	:2-3/4 ⁸ :3½° :1-3/4°	:43" forming heads: 5
Junegrass Lupine	11/2 leaf	:Full leaf; 20% in:
Arnica Strawberry	:1/2 leaf :1/2 leaf	:Full leaf :
Shooting Star	:Full flower	: Disappearing :

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Plot 5. Ambrose Creek

SwiSwi Sec. 8, T. 9 N., R. 18 W. Elevation 4900'. Slope S, 4%, ridge top. Sandy loam soil. 6YP cut-over with Douglas fir and yellow pine reproduction. Utilization 5%, 1938. Past heavy utilization of this plot near boundary has weakened vitality of plants. Similar areas ready June 20.

Date of Examination Condition of Soil	5-3-38 Wet	5-25-38 Damp	of Cover
Common Hame - Bluegrass Idabo fescue	: :2-1/4" :1-1/4"	13"; in head	: : 5 : 15
Downy shess Wind flower Yarrow	:l" :Full flower :1/2 leaf	:2h"; heading :Gone :Full leaf;forming	: 16
Dandelion Lupine	:Beginning growth	:Full leaf	
Larkspur Strawberry	:Beginning growth	:50% in flower :Full leaf	*

Plot 6. Ambrose Creek

HEISW: Sec. 16, T. 9 N., R. 18 W. Elevation 5400'. Slope SW, 25%. Sandy loam soil. 6YF cut-over, yellow pine and Douglas fir reproduction. Utilization 5%, 1938. Representative of lower elevations, Zone 2.

Dete of Examination Condition of Soil	5-3-38 Wet	5-25-38 Damp	1% of 1Cover
Sedge Buttercup Arnica	11-1/2" 11-1/4" Full flower 11/2 leaf 11/2 leaf	: :3-1/2" :3"; in head :Full flower :Full leaf;flower : in bud. :Full leaf;flower	1 5 20
Strawberry Dog-tooth violet	1/4 leaf	: in bud :Full leaf;flower- : ing :Matured and dying :Full flower	: 5

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Burnt Fork Call Unit:

Plot 1.

NEINW: Sec. 18, T. 8 N., R. 18 W. Elevation 4700!. Slope South, 30%. Decomposed granite leam soil. Type, 1 Asp-Pid-Pan. Utilization 1938, 25%. Heavy utilization in past has impaired vitality of this plot. Indicators in similar areas show readiness May 20.

Date of Examination	a 5-5-38	5-24-38	:S of
Condition of Soil	Wet	Moist	:Cover
Common Name - Wheatgrass Ideho fescue Bluegrass Downy chess Wild onion Belsemroot Shooting star Yarrow Arenaria	:4" :3/4" :1/2" :1/2" :3-1/2" :Beginning growth :1/4 leaf :Beginning growth	:Disappearing	: 40 : 10 :Trace : 10

Plot 2.

NWINE Sec. 17, T. 8 N., R. 18 W. Elevation 6400'. Slope, South, near ridge top, 5%. Soil, rocky humus. Douglas fir, mature and reproduction. Actual use 1938, none. This plot representative of Zone 2. Estimated readiness, June 10.

te of Examination ndition of Soil	5-5-38 Wet	5-24-38 Wet	:S of :Cover
mmon Name - Idaho fescue Sedge Cemes Yerrow Snowberry Mt. Maple Strawberry	:3/4" :1" :3" :1/4 leaf :Beginning growth : :1/2 leaf	: :1-1/2" :3è"; in flower :4" :3/4 leaf :1/2 leaf :Leaves in bud :Full leaf	: 10 : 30 :

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The following plots are representative of the upper limits of Zone 1 and the lower limit of Zone 2 within the Ambrose-Eight Mile Cast Unit.

Plot 1. Cleveland Mt. Ridge

NEISE: Sec. 8, T. 10 N., R. 18 W. Elevation 5500'. Slope 10%, SW; rocky humus soil. 6YP cut-over type. Upper limits of Zone 1; will be ready about June 1. This plot in area disturbed by recent logging.

Date of Examination Condition of Soil		of Cover
Common Name -		
	4"; in head	: 6
Sedge	:3"; in head	: 20
	13/4 leaf	1-30,004
Dog-tooth violet	Mature	
	:1/2 leaf	
Shooting star	Pull flower	
Arnica	3/4 leaf; flower in bud	
Larkspur	3/4 leaf; flower in bud	1

Plot 2. Cleveland Et. Ridge

MET Sec. 16, T. 10 N., H. 18 W. Elevation 6500:. Slope West, 5%. Soil, rocky humas. Type, 6LP. Within Zone 2. Estimated readiness, June 10 - 15.

Date of Examination Condition of Soil	5-23-38 Wet	of Cover
Common Name -		A STATE OF THE PROPERTY OF THE
Sedge	12"	: 10
	:Full flower	
Wooly weed	:Beginning growth	
	11/2 leaf	
Arnica	:Beginning growth	1
Low huckleberry		

7. Condition of Range as Result of Pormer Use

The ranges studied on the east side of the North End Division were extremely varied in condition as a result of former use. Fortions of the Burnt Fork Cam Unit were depleted as well as were areas on Three Mile and Ambrose Creeks. The Eight Mile Creek range showed little former use. The ranges were generally in a properly used condition. Those areas in Three Mile, Woodchuck, and Eight Mile Creeks that have been recently logged over are in a disturbed condition due to the

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logging itself and subsequent slash burning which was in progress at the time of inspection. This disturbance will be temporary, however, if old out-over areas can be used as guides. Of the area, 30% is judged to be lightly used, 50% properly used, 15% overused, and 5% depleted. The lightly used areas lie mainly within the Hight Mile Creek drainage. Depleted areas are confined to the grassy types on the Burnt Fork Gall and areas close to the boundary on Ambrose and Three Mile Creeks.

8. Soil Moisture Conditions

Due to the repeated heavy snows during May, the soil moisture conditions were excellent on the East Side ranges. Soil conditions ranged from extremely wet to moist, the higher elevations being in general the most heavily saturated. Penetration of moisture was good as the precipitation came in the form of snow and in every case the snows took several days in malting. Snow fell on the area on May 1, 16, 17 and 18. The area also enjoyed several hard rainfalls. Washing was evident where logging operations had recently disturbed the cover. Cattle were confined to lower slevations during most of May, and trampling of the soil was not serious.

9. Conclusions as to Vegetative Reediness

Vegetative readiness for the two seasonal somes was found to be as follows on the Ambrose-Eight Mile and Burnt Fork Call ranges.

Zone 1, 4000' to 5000', May 25. Zone 2, 5000' and higher, probably June 10.

10. Principal Forage Species for Spring and Summer Ranges, East Side, North End Division

Grasses, 80%		Weeds, 15%	
Agropyron spicatum Pestuca idahoensis Calamagrostis rubescens Eromus tectorum Koeleria cristata Poa sp. Carex geyeri Shrubs. 5%	25 15 20 10 T T 10	Achillea sp. Arnica Balsamorrhiza Erigeron Hieracium Lupinus Pentstemon Leontondon teraxacum	2 2 2 1 2 3 1 2
Artemisia frigida Chrysothamnus lanceolatu Arctostaphylos Symphoricarpos Opulaster	1 T T 3		

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CONCLUSIONS OF SEASONAL UNIT

The ranges on the Ambrose-Eight Mile and Burnt Fork Units were estimated to be from 10 days to 2 weeks later than normal this year. Since the ranges in Zone 1 - 4000' to 5000' elevation - were ready in the period May 20 to 25, the proper opening date for this sone would be May 15 in normal years. This conforms with the average opening date. All ranges above 5000' were not ready until June 10 to 15. These ranges are not ordinarily used until middle June and the May 15 opening date may therefore be applied to the entire area.

1. Seasonal Zones

The seasonal zones on these two units are -

Zone 1, 4000'-5000', ready May 25, 1938 Zone 2, 5000' and up, ready June 10 to 15, 1938.

2. Water Conditions in Seasonal Unit

Water is plentiful except at the upper limits of Sluice Creek in the Ambrose-Eight Mile Unit, and in the vicinity of Slocum Creek in the extreme southern portion of the same unit. Water developments in these two areas will give better utilization of these portions of the range during the season of their use.

3. Soil Moisture Conditions

The areas in Zone 1 were drier than Zone 2 due to their exposure and elevation. Soil moisture conditions were very satisfactory during May, 1938.

4. Stocking on Unit

Ambrose-Eight Nile Unit - 360 head, 93% of total. Stock came on May 1 to May 15, 1938.

Burnt Fork Unit - 34 head. Stock came on May 1, 1938.

5. Estimated Carrying Capacity

Ambrose-Eight Mile - 2100 animal months. Estimated 2/3 carrying capacity in Zone 1, 1/3 in Zone 2.

Burnt Fork

- 10 head for 60 animal months. Estimated 3/4 carrying capacity in Zone 1, 1/4 in Zone 2.

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6. Range Improvements Necessary to Obtain Seasonal Control

No range improvements are judged to be necessary to obtain seasonal control as the natural drift of cattle does not take them into Zone 2 until middle June.

7. General Recommendations for Obtaining Proper Use of Range

Salting

Take salt grounds out of the creek bottoms, as in Saw-mill Creek. Salt on ridges, especially open side ridges.

Herding

The Three Mile Stock Association is employing a rider this year. This should accomplish better distribution and salting practices. Special attention should be given to getting better utilization in Eight Mile Greek. There is some tendency for cattle to congregate in Ambrose Greek due to lack of water in Slocum. Hider should prevent this.

Pencing

Two miles of fence along Forest boundary on Slocum Creek will prevent use of national forest range by local stock which come up for water in Slocum Creek. Probable cost, \$300 per mile. Bater on Slocum Creek is the only available water in the vicinity.

Water Developments

Development of water on upper limits of Sluice Creek, Sec. 28, T. 11 N., R. 18 W. Probable cost, \$100. This will effect better distribution in this area as the range is good, but not usable during the latter part of the season due to lack of water.

Water development in the form of a dem on Slocum Creek. The water in Slocum Creek gets so low that cattle are forced to trail to Ambrose Creek for water. A dem 100 feet long, 8 feet high and 6 feet wide at the top will furnish water for the Slocum Creek area. Estimated cost, \$330.

8. General Information

Ned Wood's use of the Burnt Fork Can Unit by horses should be eliminated by instituting trespass proceedings.

Maintenance of some of the more advantageously located logging roads in the area is desirable. The roads are rapidly deteriorating due to lack of open culverts and ditches. These

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roads penetrate and transverse the greater portion of usable range on the Ambrose-Eight Mile Unit and if maintained could be used advantageously for administrative work of all kinds.

Logging by the A. C. N. Company on the Eight Nile, Three Nile, Woodchuck and Ambrose drainages will be finished this year. All effort should be madeto get these logged-over lands under Reg. G-4 permit, and to effect exchanges wherever possible in order that the grazing administration may be simplified.

SUKHARY

1. Sessonel Units

Division or Allot- ment, or Parts of.	Present	Recommended Senson
Ambrose-Eight Mile	5-1 to 10-31	5-15 to 10-31
Burnt Fork	5-1 to 10-31	5-15 to 10-31

2. Seasonal Zones

Zone 1, 4000' to 5000', May 18 to October 31. Zone 2, 5000' to 7000', June 10 to October 31.

3. Recommendations

- a. Ronge survey of the area should be made.
- b. All of the area should be kept under Forest Service administration through Regulation G-4.
- c. Make opening date over entire area May 15. Further studies should determine if season should be put on sliding scale 10 days either way from that date.
- d. Trespess upon N.P. and A.C.M. lands should be discouraged as this leads to trespess of forest ranges.
- e. Salting on ridges and spurs will aid in distribution.
- f. Supervision of and cooperation with the Three Mile Stock Association rider by the ranger will result in better distribution.
- g. Cattle should be counted onto the Forest as it is believed more cattle are being put on the Forest than are permitted in some cases.

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- h. Trespass upon national forest ranges should be promptly taken care of as there has been a general feeling that all the ranges were for use if the stockmen could get away with it. This feeling has been built up because of the large amount of alienated lands within the boundaries, especially on the Ambrose-Eight Nile Unit.
- I. Placement of cattle on the Forest should be in small bunches up the individual side draws from the main creeks as much of the range is never used due to cattle being dumped at the Forest boundary.

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DARBY DIVISION - WEST SIDE

1. Names of Units Falling Into the Same Seasonal Area

Lost Norse-Trapper Creek is the only Okh Unit on the West Side within the Darby Division.

2. General Topography of Each Sessonal Unit

The Lost Horse-Trapper Creek Unit falls entirely within the spring-summer seasonal unit. The area ranges in elevation from 4000 in the newly acquired lands along the original Forest boundary to slightly over 6000' in the vicinity of Como Lake and Trapper Creeks. The area is confined to the foothills and ridges running east from the main Bitterroot range toward the Bitterroot valley. It varies in depth from one to three miles, having its greatest depth in the Chaffin-Trapper Creek area. All of the drainages flow east toward the Bitterroot River. The ridges rise gradually from the valley floor for a distance of from two to three miles, then connect with the main body of the Bitterroot Mountains, which rise abruptly and form the western boundary of the cattle ranges. Since most of the range in this unit lies between 4000' and 5000' in elevation, the area cannot be split into spring and summer range. The area between 5000' and 6000' in elevation is confined to a rather narrow belt slong the upper limits of the cattle range and is not used as heavily as the lower some.

3. General Types and Their Relation as Regards Elevation and Exposure

The Lost Horse-Trapper Creek Unit is almost entirely covered with a yellow pine type. Much of this has been cut over, especially at the lower elevations. Over 95% of the entire area is covered with some sort of tree growth. Small parks and meadows along the streams occupy a small percent of the unit. Douglas fir types are found at the extreme upper limits of the range, as well as on the north slopes. Ledgepole, larch, and spruce are also present but do not dominate the types. Approximately 80% of the area is 6YP type, 15% DF, and the remainder is taken up by unimportant meadow and miscellaneous types. Yellow pine types are found on south and east exposures, as well as north exposures on the lower elevations. Douglas fir types are confined to north slopes at slightly higher elevations. Porage density within the yellow pine type averages .25.

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4. Direction and Degree of Slope

This unit has a general east exposure, sloping toward the Bitterroot River. Degree of slope varies from level on the creek bottom to 60% and over on the upper limits, the average slope on the usable range being 35% to 40%. North slopes are slightly steeper than south or east slopes.

5. Water - Abundance and Character

Average distance to water is one-half mile or less. The range is well watered, not only by creeks but by irrigation ditches leading to the farming district around Darby. The larger creeks are yearlong and the smaller ones contain water during the greater part of the grazing season.

6. Examination of Forage Conditions Within the West Side Range, Darby Division

Plot 1. Como Lake Ridge

SEISWI Sec. 30, T. 4 N., R. 21 W. Elevation 4500'. Slope 5%, NE. Gravelly loam soil. SYP mature type, with reproduction. Utilization 5%, 1938. Range at this elevation on south and west exposures ready May 20.

Date of Examination Condition of Soil	5-9-38 Wet	The state of the s	of Cover
Common lismo -			ik.
Bluegrass	:23"		
Junegrass	:3"	:4-1/4"	1 7
Sedge	12"	:5"; in head	: 20
Lupine	:1/2 lesf	:Full leaf;flowers	
Yarrow	:1/2 leaf	: In bud :Full leaf; forming	
Arnica	:1/2 lesf	: seed stalks :Full leaf;flowers : in bud	
Dog-tooth violet	Pull flower	:Disappearing	
Wooly weed	:1/2 leaf	Full leaf	and the state of
Shooting star	Pull flower	Disappearing	

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Plot 2. Tin Cup Creek

NWINET Sec. 18, T. 3 N., R. 21 W. Elevation 4300'. Slope none, exposure SE. Soil, gravelly humus loam. GYP type with reproduction. Utilization 1938, none. Plot taken on creek bottom. Ready about June 1; Zone 2.

Date of Examination Condition of Soil	5-9-38 Wet	5-22-38 Noist	15 of 1Cover
Common Name - Idaho fescue	:1-1/4" :2"	12-1/2"	16
Junegrass Sedge	:2"	:3-3/4"; forming	20
Arnica	:1/2 leaf	:Full leaf;flower	
Yarrow Lupine Snowberry	:1/2 leaf :Beginning growth	:5/4 leaf :Full leaf	
Wooly weed Pentstemon		:3/4 leaf :1/2 leaf	

Plot 3. Trapper Creek

NWINEZ Sec. 27, T. 2 H., R. 21 W. Elevation 4500'. Slope SW, 10%. Soil, disintegrated granite. SYP cut-over with reproduction. Utilization 1938, 20%. Ready May 18.

Date of Examination Condition of Soil	5-9-38 Damp	5-22-38 Moist	:Sover
Common Hans - Wheatgrass Junegrass	5-1/2" :2-3/4"	17-1/2" 12-3/4"	30
Idaho fescue Bluegrass	:1-1/2" :3"; flower in boot	15"	: 15 : T
Lupine	11/4 loaf	:Full leaf;flower : in bud :60% full flower	!
	Beginning growth		
	:Flower in bud s: 3/4 leaf;flower : in bud	:Full flower, 80% :Full leaf; 50% : full flower	

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Plot 4. Tin Cup Creek

NEISW: Sec. 16, T. S H., R. 21 W. Elevation 4800'. Slope SW, 20%. Soil, gravelly loam. Type, cut-over YP with reproduction. Utilisation 1938, 20%. Ready May 18.

Date of Examination Condition of Soil	5-22-39 Moist	of Cover
Common Name - Sheatgrass Bluegrass Sedge	14"; in head 16"; forming heads	35
Lupine Balsamroot Dog-tooth violet Blue-eyed Mary	:Full leaf; 20% in flower :Full flower :Plowers gone :Full flower	2
Yarrow Indian paint-brush	:3/4 leaf :Full leaf; forming flower : stalk :40% full flower	

7. Condition of Range as Result of Former Use

This range unit includes land that was recently acquired by the Forest Service. Since the acquired land was formerly used by the local stockmen without management, it is overused in many places and large areas are infested with downy chess. However, the ranges within the original forest boundary are in a properly grazed condition except along the ridge tops, which are slightly overused. Approximately 60% of the area now included in the unit is properly used, 35% slightly overused, and 5% depleted.

8. Soil Moisture Conditions

The soil moisture conditions on the range varied from wet to moist. The area enjoyed heavy snows and rain during May, and the soil moisture conditions were excellent. No damage to the soil from trampling was observed. The nature of the soil does not lead to excessive damage to the range by trampling on any of the ranges in the Bitterroot.

9. Conclusions as to Vegetative Readiness

Vegetative readiness within Zone 1 was reached during the period May 15 to 23. I estimate a ten-day spread in readiness between the extreme lower and upper limits of this range. Protected creek bottoms were behind the ridges in date of readiness. The range as a whole was ready May 20, 1938.

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10. Principal Forage Species for Spring and Summer Ranges, West Side, Darby Division

Grasses, 75%	Weeds, 15%							
Agropyron spicatum Bromus tectorum Calamagrostis rubescens Festuca idahoensis Koeleria cristata Carex geyeri Juneus sp. Carex atrata Shrubs, 105	20 10 15 18 7 15 7	Achilles sp. Arnica Balsamorrhiza Drymocallis Pragaria Hieracium Lapinus Leontondon taraxacum	22311231					
Amelenchier Arctostaphylos Cesnothus Odostemon Rosa Salix sp. Symphoricarpos	1 1 3 1 2 2 1							

CONCLUSIONS ON SHASONAL UNIT

The Lost Horse-Trapper Creek Unit was found to be five days later than normal this year. The proper opening date for this unit is May 15 in normal years.

1. Seasonel Zones

Zone 1, 4000' to 5000', ready May 20, 1938 Zone 2, 5000' to 6000', estimated May 25 to June 1.

2. Water Conditions in Seasonal Unit

Water is plentiful for the entire area for its season of use.

3. Soil Moisture Conditions

Soil moisture conditions were satisfactory during 1938 over the entire unit.

4. Stocking on Unit

800 head, 80% on. Stock entered the Forest between May 1 and May 15, 1936.

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5. Estimated Carrying Capacity

Estimated carrying capacity is 200 head for 1135 A.M.

6. Range Improvements Becessary to Obtain Seasonal Control

No range improvements are necessary to obtain seasonal control on this unit.

7. General Recommendations for Obtaining Proper Use of Hange

Salting

Salting should be on ridges at intermediate elevations during first part of season; on higher elevations during latter part of season. Do not salt on overused portions on ridge tops.

Herding |

Not necessary if cattle are distributed properly at beginning of season.

Peneing

After area has been blocked out by exchange, the boundary should be fenced to prevent trespass from nearby ranch stock. The boundary is in such an unsettled condition at present that no fences are recommended except where the boundary has been permanently established.

Water Developments

None believed necessary. Recommend further study to determine if any areas are not being properly used due to lack of water.

SUMMARY

1. Seasonal Units

Division or Allotment. or Perts of. Present Season Recommended Season Lost Horse-Trapper 8-1 to 10-31 5-15 to 10-31

2. Sessonal Zones

Zone 1, 4000' to 5000', May 15 of average year. Zone 2, 5000' to 6000', estimated May 25 of average year.

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3. Recommendations

- a. Hange survey of the area should be made.
- b. The unit should be blocked out through exchange as rapidly as possible
- c. Boundaries should be fenced when they become permanently established.
- d. Opening date of May 15 should be established.
- e. Salting should be done on ridges at intermediate and higher elevations, advancing with the season.
- f. Strict observance of trespass laws by nearby ranchers will have to be gained. The local ranchers have been in the habit of using the lands formerly owned by the N. P. and A. C. M. much as they pleased.
- g. The area is unwieldly in that it extends along the valley for a distance of over 14 miles. To be properly administered it should be divided into two units, extending from Lost Horse to Bunkhouse Creek, and from Bunkhouse Creek to Trapper Creek.
- h. Further study should be made to determine if the October 31 closing date is too late. Overuse in cortain areas results from fell use.

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DARBY DIVISION - EAST SIDE

1. Names of Units Falling Into the Same Seasonal Area

Spring and summer ranges:

(a) Skalkaho Call

(b) Little Sleeping Child Call

(e) Harlan Creek CaH

2. Ceneral Topography of Each Seasonal Unit

Skalkaho Call Unit

All cattle units on the east side of the Darby Division may be placed in the spring-summer classification. Elevation varies from 3800' on the outside lands used in conjunction with forest ranges to over 6000 on the Sleeping Child-Skalkaho divide. Most of the usable range (approximately 80%) lies between 4000' and 5500'. This range embraces land within the Skalkaho Creek drainage. Skalkaho Creek flows in a general westerly direction toward the main Bitterroot. The estile ranges on this unit are found on west, south end, to a slight extent, east exposures. Ridge tops and spurs with west and south exposures carry most of the available feed. Along the course of the main Skalksho Creek the drainage is often canyon-like, being bounded by high cliff-like formations and extremely steep slopes. The side drainages are similar in nature, climbing rapidly to the cattle range located at their upper limits. The side drainages are negotiable by domestic stock and are used as means of access to the range. (See picture No. 31.) Elevational climbs are steepest near the precks. The ridges adjacent to the main divides are fairly level and easy to travel.

Little Sleeping Child CAH Harlan Creek CAH

These two cattle units may be described as one since they are similar in most respects. The Barlan Greek unit includes ten sections of outside land within its confines. All of the outside land has been out over and is covered with yellow pine and Douglas fir reproduction. Within the forest boundary the land on both units is practically all privately owned. These private lands are managed on a 3-4 basis by the Forest Service. Within the forest boundary all merchantable timber has been out over although more recently than the lands outside. Dates of cutting ranged from 1920 to the time of inspection. Cutting and burning operations have disturbed the ground cover to some extent. Downy chass and weeds are prevalent where brush disposal was carried on. The range in

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child Creek flows toward the northwest. Harlan Creek drains toward the west. Available cattle feed is found chiefly on west and southwest exposures, and along ridge tops.

3. General Types and Their Relation as Regards Elevation and Exposure

All of the outside lands used with the Skalkaho C&H Unit are covered by a grass-browse type. Bitterbrush is the predominant browse species. These lands have been badly overused in the past and are heavily infested with downy chess and weeds. The original wheatgrass stand has been almost entirely wiped out. Within the forest boundary the predominant type is yellow pine. Beginning at about 4500' the yellow pine extends upward to approximately 6000', merging at that elevation with the usual transition type of yellow pine, Douglas fir and lodgepole. Above 6500' the lodgepole type predominates. Purely grass types are scarce and unimportant. Stream bottom types are limited and do not receive any but easual use. Average density, within the yellow pine type on this unit, is .25. Including outside ranges used with the forest ranges. the percentage of each type is roughly as follows: grass-browse types, 20%; yellow pine, 60%; Douglas fir, 20%. The grass-browse type is found chiefly on the open bald country north of Skalkahe Greek outside of the Forest. Exposure is south and west. Yellow pine types are found on south, west and east slopes. North slopes carry Douglas fir types with intermixed yellow pine.

4. Direction and Degree of Slope

The general slope on the Skalkaho, Little Sleeping Child and Harlan Greek Call Units is toward the west. Slopes vary from 10% to 60%. Ridge tops are often level or only slightly sloping. North slopes along creeks are cliff-like in the Skalkaho drainage.

5. Water - Abundance and Character

Water is found in most of the numerous side drainages as well as in the main creeks. The greatest distance to water is not over 3/4 of a mile. Water remains adequate until the latter part of the season with the exception of a part of the Little Sleeping Child and Harlan Creek units where several springs are in need of development in order to effect better distribution and utilization.

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6. Exemination of Porege Conditions Within the East Side Range, Darby Division

Plot 1. Skalksho Call Unit

HWINWY Sec. 21, T. 5 N., R. 19 W. Elevation 6000'. Slope SE, 30%. Sandy loam soil. 6YP type. Utilization 5% by game (elk) 1938. Ready June 1. Lower limits of Zone 2.

Date of Examination Condition of Soil	5-6-38 Wet		S of Cover
Junegrass Sedge (geyeri)	:20" :20" :10"	:3" :2g*;flowers in	5
Lupine	1/2 leaf	:Full leaf;flowers	THE PERSON NAMED IN
Yarrow	1/2 leaf	: in bud :Full leaf; forming : flower stalks	
Indian point-brush Snowberry	Beginning growth	:Full flower, 10%	

Plot 2. Little Sleeping Child CaR Unit

SETHWY Sec. 10, T. 4 N., R. 20 W. Elevation 5900'. Slope SW, 25%. Soil, disintegrated granite. Type, SYP out-over. Utilization 1938, 20%. Within Zone 2.

Date of Examination Condition of Soil	5-10-38 Moist		% of Cover
Common Name -	123"	:31s; in hesd	8
Downy chess	13"; heading	:35"; in head	15
	:Mature	:Plowers gone	
TWLLOW	taria Amer	: stalks; full loaf	
Arnica	3/4 leaf	:Full leaf; 25%	
	Leaf; flowers in	Full flower	
Lupine	1/2 leaf	:3/4 leaf; flowers:	
Dog-tooth violet	:Full flower	:Flowers disap-	

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Plot S. Harlen Creek O&R Unit

SWINN' Sec. 17, T. 4 N., R. 20 W. Elevation 5300'. Slope SW, 10%. Sandy losm soil. SYP out-over with reproduction. Ready May 20.

Date of Examination Condition of Soil	5-10-38 Damp	5-26-38 Moist	of Cover
Common Name - Wheatgrass Eluograss Idaho fesque Downy chess Service berry	:4" :5" :2" :3/4" :Beginning growth	: 17" :3½"; in head :2½" :5-3/4"; in head :Pull leaf; full	: 20 : 10 : 10 : 25
Lupine	:1/2 leaf	: flower :Leaf; forming : seed stalks	1
Balamroot	12/2 1005	:Full leaf; full	
Bitterbrush Snowberry	Beginning growth	: flower :1/2 leaf :Full leaf	

The following two plots were taken in the vicinity of the Little Sleeping Child range and are representative of the conditions found on the areas being discussed.

Little Sleeping Child SaG Unit

Selnw: Sec. 12, T. 4 N., R. 20 W. Elevation 5000'. Slope South, 5%. Rocky granite loam soil. Type, 6YP cut-over. Utilization 1938, none. In Zone 2; ready June 5 to 10.

Date of Exemination Condition of Soil	5+10-38 Moist	:% of :Cover
Common Name -		
	12-1/4"	1 10
	:1/2"	1 25
Bluegrass	13"	: 10
	11/2 leaf	
	Mature	F-12 (4) (5) (5)
Shooting star	:Full flower	
Dog-tooth violet	:Full flower	STATE OF THE RESERVE OF THE PARTY OF THE PAR
Arnica	11/2 leaf	PENEL SON EN
Balsanroot	:1/2 leaf	
Showberry	:Beginning growth	

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Rye Creek CAH

NEISE Sec. 24, T. 3 H., R. 20 W. Elevation 5300'. Slope SW, 20%. Soil, disintegrated granite. Type, 6YP. Exposed site, ready May 15, 1938.

Date of Examination Condition of Soil	5-13-36 Damp	Cover
Common Name - Wheatgrass	89	28
A STATE OF THE PARTY AND A STATE OF THE PARTY AND ADDRESS OF THE PARTY	:2-3/4"	: 10
	:Full leaf; forming head	
Shooting star	: stalks :Mature	
	11/2 leaf	
	:1/8 leef	*

7. Condition of Range as Result of Former Use

Skalksho Call Unit

The outside ranges on this unit are 40% depleted. The remainder, except for local areas, is overused. Within the forest boundary the range is in a much better condition. Overuse is noticeable along ridges. The steeper side hills are lightly used. Areas found at the heads of the side drainages are as a rule properly used. Over the entire area, 20% is slightly overused, 20% lightly used, and 60% properly used. Winter use by elk aggravates the condition of outside ranges.

Little Sleeping Child C&H Unit Harlan Creek C&H Unit

The outside ranges used with the Harlan Creek unit are in a much better condition than these found on the Skalkaho Unit. Within the forest boundaries the condition is much the same as that found on the Skalkaho with the exception of the areas where old slash burning has disturbed the ground cover. The area as a whole is slightly overused. The writer estimates that about 5% of these units have been depleted, 25% overused, 50% properly used, and 20% lightly used. Ridge tops receive the most usage by stock and are in the worst condition.

8. Soil Moisture Conditions

Hoisture conditions at the time of examination varied from wet to damp. Soil moisture was considered very favorable at the time of examination. Due to the nature of the soil, which is chiefly disintegrated granite, the use of these ranges while wet does not result in any serious trampling.

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9. Conclusions as to Vegetative Readiness

Vegetative readiness for the spring and summer seasonal some covering most of the units being discussed came during the period May 20 to June 1, 1938. Average date of range readiness was attained May 25 in Zone 1. Zone 2 estimated to be ready June 10 to 15.

10. Principal Forege Species for Spring and Summer Ranges, East Side, Darby Division

Grasses 85%		Needs, 10%
Agropyron spicatum Bromus tectorum Festuca idahoensis Koeleria cristata Poa sp. Carex geyeri Others Shrubs. 55	30 20 10 5 5 10 5	Achilles sp. 1 Arnics 2 Aremaria T Balsamorrhiss 2 Drymocallis T Hieracium 2 Lupinus 2 Leontondon taraxacum 1 Others T
Purshis tridentata Ceanothus Odostemon Salix Symphoricarpos Others	1 2 7 2 7	

CONCLUSIONS ON SEASONAL UNIT

Since the season was judged to be ten days later than normal during 1938, the proper opening date is set at May 15 for normal years.

1. Seasonal Zones

Because the area developing later than June 1 is relatively small, and since the eattle do not reach the ranges on the higher elevations until later than June 1, all of the Skalkaho, Little Sleeping Child and Harlam Creek Cam Units have been included in the spring-summer range units and only the primary zone between 3800' and 5000' considered. It was estimated that range readiness arrived on May 25 over the entire zone.

2. Water Conditions in Seasonal Unit

Water is adequate during the sesson of use except on the north slope of Little Sleeping Child Creek and portions of Harlan Creek and Skalkeho ranges. Ten springs should be developed in order to secure proper use.

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3. Soil Moisture Conditions

Soil moisture conditions were similar throughout the three units. Exposed west slopes were the driest areas. Soil moisture conditions were satisfactory during the spring of 1938.

4. Stocking on Unit

Skalkaho Cam Unit - 100 head of cattle, 55% on, 45% off. Date entering Forest, May 1.

Little Sleeping Child GaH Unit - 50 head of cattle, 35% on. Enter forest May 1.

Harlan Creek Call Unit - 50 head of cattle, 35% on. Enter forest May 1.

5. Estimated Carrying Capacity

Skalkaho Call Unit - 594 animal months Little Sleeping Child Call Unit - 462 animal months Harlan Creek Call Unit - 518 animal months

6. Range Improvements Necessary to Obtain Sessonal Control

Since the area has been placed within one seasonal zone, no range improvements are necessary to obtain seasonal control. However, several range improvements are necessary to obtain better utilization and distribution, as well as to confine the cattle to their respective units.

Water Developments

Skalksho Call Unit

Coffee Gulch: HEINET Sec. 21, T. 5 N., R. 19 W. Estimated cost \$75.

NEINWi Sec. 21, T. 5 N., R. 19 W. Estimated cost \$75.

Brennen Gulch: NEISE Sec. 20, T. 5 H., R. 19 W. Estimated cost, \$75.

McCartney Gulch: SEZSEZ Sec. 22, T. 5 N., R. 19 W. Estimated cost \$75.

The drainages in which these springs are found dry up late in the season and springs should be developed in order to better utilize the areas.

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Little Sleeping Child Call Unit

NWISE Sec. 15, T. 4 N., R. 20 W. NESMET Sec. 22, T. 4 N., R. 20 W. SEISWI Sec. 20, T. 4 N., R. 20 W.

Harlan Creek CAH Unit

RESSET Sec. 8, T. 4 N., R. 20 W. SETNWT Sec. 17, T. 4 N., R. 20 W. SETNWT Sec. 19, T. 4 N., R. 20 W.

Drift Fences

Barlan Creek Call Unit

Commencing on ridge between Mike and Burke Creeks in Sec. 1, T. S N., R. 21 W., and extending eastward to the forest boundary; thence running in a northeasterly direction along the ridge to the Little Sleeping Child divide. Purpose: to prevent drift out of or in to the unit. Length, 3-1/2 miles.

Little Sleeping Child Call Unit

A drift fence commencing at the southwest corner of Sec. 35, T. 4 N., R. 20 N., and extending northeast to the Sleeping Child-Rye Creek divide. Purpose: to prevent drift out of the Sleeping Child Can Unit into the Deer Nt. area. Length, 3 miles.

Estimated cost of drift fences is \$150 per mile.

7. Areas Which Cannot be Used During Proper Season Due to Lack of Water

Small areas at the head of Coffee Gulch, Brennen Gulch and McCartney Gulch on the Skalkaho CaR Unit cannot be utilized during the latter part of the season due to lack of water. The same is true of areas on both the Harlan Creek and Little Sleeping Child Gan Units.

8. General Recommendations for Obtaining Proper Use of Range

Selting

Take salt grounds off main ridges and place on spur ridges. Main ridges are overused already and will receive their share of use without salt.

Herding

None necessary if salt is placed properly. Number of cattle too small to hire herder.

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Mater Development

Described under "Range Improvements Recessary to Obtain Seasonal Control."

STRUMARY

1. Sessonal Units

Division or Allotment, or Parts of. Present Season Recommended Season

Skalkaho CaH Unit |
Little Sleeping | Shild CaH Unit | S-1 to 10-31 |
Harlan Creek CaH |
Unit |

2. Sessonel Zones

Sessonal Zone 1, 3800' to 5000', vegetative readiness May 25, 1938.

Zone 2, above 5000', vegetative readiness June 10 to 15, 1938.

3. Recommendations

- a. Acquire all lands possible through exchange.
- b. Stop trespass immediately. Small trespass has done much to tear down this range.
- c. Construct necessary fences to keep cattle within their units and prevent trespass.
- d. Conduct range survey over this entire area.

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WEST FORK DIVISION

1. Names of Units Falling Into the Same Seasonal Area

Spring and summer ranges:

- (a) Fales Flat C&H Unit
- (b) Lower Blue Joint Call Unit

2. General Topography of Each Seasonal Unit

Pales Flat Call Unit

This unit is confined to the river bottom and the lower hills on the Nesperce Fork of the Bitterroot River in the vicinity of Fales Flat. The bottom is flat or slightly rolling. The range is entirely on the north side of the river and takes in a portion of the foothills in the vicinity of Watch Tower Creek. Elevations range from 5000' to 6000'. The rise in elevation is rapid after leaving the flat area along the river.

Lower Blue Joint Call Unit

This unit extends along the West Fork of the Bitterroot from the Slate Creek Ranger Station to Johnson Creek. It includes a strip of private land along the river and extends both east and west from the river bottom for an average distance of one mile. The greater part of the range lies between 5000' and 6000' in elevation. Rise in elevation from the river is rather rapid for the first 500 feet.

3. General Types and Their Relation as Regards Elevation and Exposure

Pales Plat CAN Unit

Most of the unit is covered with a lodgepole type on the river bottom. South and west sidehills are covered with yellow pine type. Average density in the Pales Flat area is .25 in the lodgepole type. Small areas of open grass or meadow type are also found on the flat.

Lower Blue Joint CAN Unit

The lower hills and bottom lands are covered with a yellow pine type with an average density of .3. At higher elevations, both on the creek bottom and ridges, the range is cocupied by a lodgepole type similar to that found on Fales Flat. All the meadow lands along the river are privately owned and are producing hay.

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4. Direction and Degree of Slope

Fales Flat CAN Unit

The flat area along the creek bottom is flat or gently rolling. The hill range is steep with from 20% to 65% slopes. General exposure is south and southwest.

Blue Joint Car Unit

Level areas are found in a fringe along the river bottom. The foothill range varies from 5% to 60% in degree of slope. The exposure is both east and west as the range skirts both sides of the river which flows directly north in this vicinity.

5. Water - Abundance and Cheracter

Peles Flat Can Unit

Water is obtained from the Mesperce Fork of the Bitterroot and such streams as Watch Towar Creek. No part of this range is more than one-half mile from water.

Lower Blue Joint Call Unit

Water can be obtained from the river or any of the numerous side drainages. Some of the higher ridges are rather dry but the distance to water is not over three-fourths of a mile in any case.

6. Examination of Forage Conditions Within the West Fork Division

Plot 1. Pales Flat Call

SWiNE: Sec. 15, T. 1 S., R. 23 W. Elevation 5100'. Slope none, exposure SW. Disintegrated granite humas soil. Type, ledgepole. Utilization 1938, 10%.

Date of Examination Condition of Soil	5-13-38 Hoist	5-30-38 Moist	s% of sCover
Bluegrass Idaho fescue	:21"; in head :1-3/4"	:32"; in beed :22"	: 20 : 15 : 2
	:1/2 leef :1/2 leef	:Pull leaf; 10% in : flower :Leaf	
Clever Dog-tooth violet	:3/4"	13"	5

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Plot 2. Blue Joint CAH

SWiNWE Sec. 11, T. 2 S., R. 22 W. Elevation 5500'. Slope 40%, SW. Disintegrated granite losm soil. 6YP type. Utilisation 1938, none. Wheat grass in this vicinity 8" to 10" on May 30, 1938.

Date of Examination Condition of Soil	5-8-38 Noist	5-30-38 Wet	of Cover
Coumon Name - Bluegrass Idaho fescue	34"	:5"; in head	: S : 20
	1/2 losf	:Leaf; flowers in : bud :Full flower	
	Flowers in bud Full flower	:90% full flower :Disappeared :Flowers gone	
Old-man's whisker	Flower in bud	:Full flower :60% in flower	

Plot 3.

Sw: Sec. 3, T. 3 S., R. 22 W. Elevation 5200'. Slope 10%, SW. Rocky losm soil. Lodgepole type. Within Zone 2, ready about June 5, 1938.

Date of Examination Condition of Soil	5-30-38 Est	of Cover
Arnica	:4j" :3j"; in hesd :Full leaf; 20% in flower :Full leaf	1 10 15
Yarrow Strawberry	: Full leaf; 20% in flower Full flower	1

7. Condition of Range as Result of Pormer Use

Fales Flat Cam Unit

The timbered types on this area are in good condition as a result of former use. The grass or meadow types which make up about 10% of the total area are depleted. (See picture \$17.) Small areas along the road, and the creek bottom along watch Tower Creek, are overused. Of the area, 80% is properly used, 10% depleted, and 10% overused.

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Lower Blue Joint Call Unit

This unit appeared to be in a good condition except in a limited area along the road and creek bottoms. Some ridge tops were also overused.

8. Soil Moisture Conditions

Soil moisture varied from wet to moist. Conditions were very satisfactory during the spring of 1958.

9. Conclusions as to Vegetative Readiness

Fales Flat Call Unit

Vegetative readiness arrived on the Fales Flat Area during the period June 1 to 5. Most of the area was ready according to observations on June 1.

Lower Blue Joint CAR Unit

On all of the exposed portions of this range, vegetative readiness arrived May 20 to 25. Along the river bottom and at its upper limits the range was not ready until June 1.

10. Principal Forage Species for Spring and Summer Ranges, West Fork Division

Orasses, 80%		Weeds, 10%	
Agropyron spicatum Eromus tectorum Calamagrostis rubescens Festuca idahoensis Festuca scabrella Koeleria cristata Poa sp. Carex geyeri Others	50 5 10 15 T T 5 15	Achilles sp. 1 Arnica 2 Arenaria T Balsamorrhisa 2 Lupinus 2 Pentstemon 2 Rieracium 2 Leontondon taraxacum 1 Others T	
Shrubs, 10%			
Arctostaphylos Odostemon Vaccinium caespitosum Symphoricarpos Others	T T 7 5 T		

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CONCLUSIONS ON SEASONAL UNIT

Fales Plat Call Unit

This range lies along a well traveled road into the Deep Creek country. It is protected from the sun and the small parks along the road receive heavy early use. Vegetative readiness never completely arrives on this range until June 1 because of the depleted condition of the small parks and the probable increased public use of the road through this area. It is recommended that the opening date on this area be set at June 1 rather than May 1 as in the past.

Lower Blue Joint Call Unit

The entire area reached vegetative resdiness during the period May 25 to 30. It is believed that this is at least ten days later than in ordinary years and the recommended date for opening the range is set at May 15. Considerable variation is found between the extremes in plant development on this range but the writer estimates that May 15 is a fair average date of range readiness. No attempt can be made to divide the area into spring and summer pasture as the nature of the range makes it necessary that it be used as one unit.

1. Sessonal Zones

The entire area lies within one seasonal zone. The elevation is 5000' to 6000' plus.

2. Water Conditions in Seasonal Unit

Water on the area is adequate for the season of use.

3. Soil Moisture Conditions

Soil moisture conditions were excellent during the spring of 1938.

4. Present Opening Date

Dates on: Feles Plat, May 1; Lower Blue Joint, May 1.

5. Estimated Carrying Capacity

Pales Flat CaH Unit - 558 animal months. Lower Blue Joint CaH Unit- 1325 animal months.

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5. Range Improvements Mecessary

No range improvements needed for sessonal control.

6. General Recommendations

Salting

Salt on spur ridges and away from creeks and roads.

SUMMARY

Seasonal Units

Division or Allot- ment, or parts of	Present Season	Recommended Season
Fales Flat	5-1 to 10-51	6-1 to 10-31
Lower Blue Joint	5-1 to 10-31	5-15 to 10-31

Seasonal Zones

Spring-Summer Ranges

Fales Plat, elevation 5000'-6000', 6-1 to 10-31

Lower Blue Joint, elevation 5000'-6000', 5-15 to 10-31

Recommendations

- 1. Range surveys should be conducted on cattle ranges on the West Fork.
- 2. Further study should be made on closing dates on the Fales Flat Area.
- 3. Either fence small parks in Fales Flat, or stock entire area to capacity of the park areas.

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BAST FORK DIVISION

1. Names of Units Falling Into the Same Seasonal Area

Spring-Summer ranges:

(a) Medicine Tree CaH

(b) Camp-Reimel Call

(c) East Fork CaR, 5000' to 6000', (d) Mesdow-Tolan, 5000' to 6000',

Summer ranges:

(a) East Fork Call, above 60001, (b) Meadow-Tolan, above 60001,

General Topography of Each Seasonal Unit

Medicine Tree CAH

Part of this range lies within the main Bitterroot drainage. The eastern part lies within the East Pork drainage. The area is rough and open with desply out drainages. Altitudes vary from 4600' to 6500'.

Camp-Reimel Call

This area is similar to the Medicine Tree Call Unit but is not so deeply cut by drainages. Elevations range from 4500' to 6500'.

East Fork Can

Lying on the north side of the East Fork of the Bitterroot River, this area rises from about 5000' on the river bottom to over 7000' on the highest cattle range. It is out by deep drainages flowing south to the East Fork.

Mesdow-Tolan CMI

This eres is similar to the East Fork OaH but has a north exposure. All creeks flow north to the East Fork.

5. General Types and Their Relation as Regards Elevation and Exposure

Medicine Tree Chil

The open bald hills on the west and south exposures on this range occupy about 40% of the area. They are covered by a grass type, 1 Asp-Fid-Fan, with an average density of .35.

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Grass and grass-browse types occupy the range of south and west exposures up to an elevation of 5500'. Above 5500' and extending up to the highest elevation of south and west exposures, the yellow pine type predominates. On east and north slopes, Douglas fir types occupy the range.

Camp-Reimel CAH

Grass types occupy south and west exposures to the highest limits of this range. Yellow pine types are found on most areas not occupied by grass. The upper limits of this range are occupied by bug-killed lodgepole types.

East Fork Call

Extending up to 6200', this area is covered by yellow pine type on west and south exposures. East slopes are covered by Douglas fir type. Above 6200' the area is occupied by a lodgepole pine type, 80% bug-killed.

Meadow-Tolen C&H

The Meadow-Tolan area contains the largest percentage of lodgepole pine types of any of the ranges on the Bitter-root. Fractically all of the area above 6000' is covered with this type. Between 5000' and 6000', the yellow pine and mixed types occupy the area. This unit also contains a number of meadows along the creek bottoms and at high elevations. The area of these meadow types is not extensive.

4. Direction and Degree of Slope

Medicine Tree Call

Two-thirds of this unit slopes west and south. The degree of slope varies from 10% to 60%. The remainder of this unit slopes east into Cameron and Doran Creeks, with the degree of slope about the same.

Camp-Reimel CaH

The general slope in this unit is west and south, the degree of slope varying from 10% to 60%.

East Fork C&H

This area has a general slope to the south, degree of slope varying from 10% to 60%.

Meadow-Tolan Call

Most of this unit has a north exposure. Some areas slope to the northwest in the Tolan Creek area. Average slope is 35%.

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5. Water - Abundance and Character

Medicine Tree CAH

This area is not as well watered as the other units on the East Fork Division. Easter is sufficient for most of the season. Cattle water in such streams as Elk Gulch, Medicine Tree Creek and Doran Creek! Nost of the range is within three-fourths mile of water.

Camp Reimel Cam

This area is well watered by springs and permanent atreams. The drop from high points on open ridges to water sometimes interferes with good utilization but as a rule water is sufficient for the grazing period. Distance to water is not over three-fourths of a mile.

Rost Fork Call

This range is well watered by permenent water courses such as Bertie Lord, Tepes and Guidy Creeks. Distance to water is not over three-fourths of a mile.

Meadow-Tolan Call

The Mesdow-Tolan area is well watered by springs, seeps, and creeks. Some of the high lodgepole ridges are without water but the distance to water is not great. The greatest difficulty encountered by eattle using this range is being able to get to water through fellen and down lodgepole timber.

6. Examination of Porage Conditions Within the East Fork

Plot 1. Medicine Tree CaH

NEISWE Sec. 6, T. 1 N., R. 19 W. Elevation 4900'. Slope SW, 40%. Disintegrated granite soil. Type 1 Asp-Pan. Utilization 1938, 20%.

Date of Exemination Condition of Soil	5-16-38 Damp	5-31-38 Damp	:5 of :Cover
and the same and the factor of the same and	: :6" :8%" :5%";flower in boot 6";	in head	15
Downy chess Bitterbrush	12g" (3g")	in heed leaf	1 15
Lupins	: flower : Full leaf : Full	flower, 80%	
Larkspur	Pull flower :Dise	ppearing full flower	*

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This plot was ready at time of first examination. Is representative of lower one-third of Zone 1.

Plot 2. Medicine Tree Call

NEINW Sec. 31, T. 2 N., R. 19 W. Elevation 6200'. Slope 40%, SW. Disintegrated granite soil. Type 1 Fid-Fan-Ker. Ready June 5 to 10. This plot representative of lower limits of Zone 2.

Date of Examination Condition of Soil	5-16-38 Woist	5-31-38 Demp	of Cover
Common Name - Idaho fescue Junegrass	:13"	1328 1328 1329	1 20
Balsampoot Blue bell Wheatgrass Bluegrass	Beginning growth	20% in flower Full flower	10
Old-man's whiskers Lupine	:Full flower :Beginning growth :1/2 leaf	:Disappeared :Full flower :Full leaf; flower : in bud	ri

Plot 3. Camp-Reimel CAM

NW1SET Sec. 22, T. 1 N., R. 19 W. Elevation 3800'. Slope 5%, South. Disintegrated granite leam soil. Grass type. Not ready May 17; estimated to be ready about May 25.

Date of Examination Condition of Soil	4-29-38 Moist	5-17-38 1% (Moist :Co	
Common Hame - Bluegrass Idaho fescus	:1-2/3" :13"	12	5
Rough feacus Daisy Larkspur Lupine	:3" : :1/2 leaf	:3-3/4" :Full flower : :3/4 leaf; flower :	
Snowberry Balsamroot	Beginning growth	in bud	

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Plot 4. Camp-Reimel Call (Series, 500' intervals)

NW\ Sec. 5, T. 1 S., R. 19 W. Elevation 5400'. Slope SW, 405. Disintegrated granite soil. Type, 1 Asp-Fid. Utilisation 1938, none. Ready about May 25, 1938. Intermediate elevation, Zone 1.

Date of Examination Condition of Soil		S of Cover
Vheatgrass Idaho fescue	18" 18"	35
	:60% full flower :Full flower s gone	

NW2 Sec. 10, T. 1 S., R. 19 W. Elevation 5900'. Slope 40%, SW. Soil, disintegrated granite. Type, 1 Asp-Pid. This plot shows range readiness at upper limits of Zone 1.

Date of Examination Condition of Soil		5-31-36 Woist	:% of :Cover
Common Name - Wheatgrass	63"		: 30
	Pull Pull	leaf flower	
	:Full	leaf; forming hea	ds :

NW1SW2 Sec. 3, T. 1 S., R. 19 W. Elevation 6400'. Slope 165, SW. Soil, disintegrated granite losm. Grass type. Within Zone 2; ready June 5 to 10.

Date of Examination	5-12-38	5-31-38	1% of
Condition of Soil	Wet	Moist	1Cover
Yarrow Idsho fescue Penny cress Junegrass Buttercups	:12" :22" :Beginning growth :1" :1/2" :Full flower :Beginning growth	:2" :Full flower :2" :Disappearing	\$ 8 \$ 20

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Plot 5. East Fork - Tepes Creek

SEINWI Sec. 18, T. 2 N., E. 17 W. Elevation 5600'. Slope 40%, SE. Disintegrated granite soil. Type, 6YP mature. Utilisation 1938, 10%. Within three days of readiness.

Date of Examination Condition of Soil	5-11-38 Wet	6-3-38 Moiat	is of Cover
Common Name - Wheatgrass Sedge (geyeri)	:31"	183"	18
Idaho feseue	:2}" :Deginning growth	:2%* :3/4 leaf :80% full flower	1 10
Lupine	:1/4 leaf	:Full leaf; 10%	
Snowberry Bitterbrush	:Beginning growth	:Full leaf : 3/4 leaf	

Plot 6. East Fork - Bertie Lord Creek

SW: Sec. 11, T. 2 N., R. 18 W. Elevation 5600'. Slope 10%, SW. Soil, rocky sandy loam. Type, lodgepole. Utilization 1938, 10%. Armica indicates readiness.

Date of Examination Condition of Soil	5-17-38 Wet	6-3-38 Moist	15 of
	110	139	
Sedge (geyeri) Arnica	:210; in boot :1/2 lesf	:22"; in head :Full leaf; 20% in : flower	: 20
Lupine	1/2 leaf	: Pull lesf; flowe : in bud	Pi
	:Beginning growth :1/2 leaf	:Full leaf; formi ; seed stalks	

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East Fork Series - Jennings Camp Ridge (500' intervals)

SE's Sec. 34, T. 1 H., R. 19 W. Elevation 4900'. Slope 30% SW. Disintegrated granite soil. Type, 1 Asp-Fid-Pan.

Date of Examination Condition of Soil	6-2-38 Moist	3% of 1Cover
Common Name -	18" to 10"	1 25
	14"; in head	1 15
Junograss	:In head :Full leaf;forming head	1 5
	: stalks	
Balsamroot	:Flowers in bud :Full flower	12/6/3
Phlox Lupine	Full flower, 50%	

SWi Sec. 22, 7, 2 N., R. 18 W. Elevation 5200'. Slope SW, 40%. Soil, disintegrated granite. Type, 6YP. Utilisation 1938, 5%.

Date of Examination Condition of Soil	6-2-38 Hoist	of Cover
Common Name - Wheatgrass Lupine	:62" :60% full flower	: 20
Service berry	:Full leaf :Flowers in bud	
Blue-eyed Mary Yarrow	:Full flower :Full leaf; forming seed	
Bitterbrush Phlex	: stalks :3/4 leaf :Full flower	

NW: Sec. 22, T. 2 N., R. 18 W. Blevation 5700'. Slope 20% SW. Soil, humus loam. Type, SYP. Utilisation 1938, 5%. Range readiness June 2, 1938; upper limit Zone 1.

Date of Examination Condition of Soil		of Cover
Lupine	: 16" 14½"; in head Full leaf; flower in bud	15 10
Shooting star	:Full leaf; 10% full flower :Mature to disappearing :Full leaf; forming seed : stalks	:
Strawberry	Full leaf; 20% in flower	

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SW: Sec. 15, T. 2 N., R. 18 W. Elevation 6200'. Slope SW, 25%. Soil, sandy loam. Type, 6YP mature. Utilization 5%, 1938. Lower limit Zone 2.

Date of Exemination Condition of Soil		of Cover
Common Name - Sedge (geyer1) Wheatgrass		: 20 : 10
Lupine Arnica	:3/4 leaf; flowers in bud	
Wooly weed Snowberry Yarrow	:2/3 leaf :Full leaf	

SWi Sec. 9, T. 2 N., R. 18 W. Elevation 6700'. Slope SW, 20%. Soil, humus leam. Type, lodgepole. Utilization 1938, none.

Date of Examination Condition of Soil		6-2-38 Moist	1% of 1Cover
Common Name - Sedge (geyeri) Pinegrass	1236	in flower	: 20
Low huckleberry Dog-tooth violet	:1/2	leaf; flowers in bud full flower	1

SET Sec. 8, T. 2 N., R. 18 W. Elevation 7000'. Slope SW, S%. Soil, sandy humus losm. Type, lodgepole. Within upper half Zone 2.

Common Name - : Dog-tooth violet :20% full flower : Pinegrass :2" : 40 Sedge (geyeri) :12" : 20	Date of Examination 6-2-38 Condition of Soil Hoist	is of
Pinegrass 12" : 40 Sedge (geyeri) :12" : 20	Common Name - : Dog-tooth violet 180% full flower	
Small break at assess Bandanian commits	Pinegrass 12"	1 40
Armica 21/4 leaf	Small huckleberry: Beginning growth	

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Meadow-Tolan Series (500' intervals)

SWi Sec. 27, T. 2 N., R. 18 W. Elevation 5000'. Slope N, 15%. Soil, rocky loam. Type, DF mature. This plot shows condition on north exposures common with range.

Date of Examination Condition of Soil		of Cover
Common Name -		
	:Pull leaf	
The second of th	15"	40
	:Flowers in bud	
	13/4 leaf	
Strawberry	:Pull leaf	
	Pull leaf	
Dog-tooth violet	ifull flower	

SW: Sec. 26, T. 2 H., R. 18 W. Elevation 5500'. Slope NW, 45%. Soil, disintegrated granite. Type, grass-browse. Within Zone 2; estimated ready June 5, 1938.

Date of Examination Condition of Soil	The second secon	Cover
Common Name -		
Bluegrass	1339	
Balsamroot	160% full flower	13521
Larkspur	Fell flower	
Lupine	:50% full flower	
Phlox	Full flower	
Hinebark	:Full leaf	
Snowberry	:Full leaf	5
Bitterbrush	:1/2 leaf	

NW2 Sec. 35, T. 2 N., R. 18 W. Elevation 6000'. Slope NW, 265. Soil, rocky humus. Type, 6DF. Within Zone 2; estimated readiness June 10, 1936.

Date of Examination Condition of Soil	6-1-38 Noist	of Cover
Common Name -		: 40
	:Full flower; mature	
	:1/2 lesf :Full lesf	

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NET Sec. 3, T. 1 N., R. 18 W. Elevation 6500'. Slope NW, 40%. Soil, rocky disintegrated granite. Type, 6YP, bug-killed. Within Zone 2; estimated readiness June 15, 1938.

Date of Examination Condition of Soil		of Cover
The second secon	:2}" :Full flower	40
Rose	1/2 leaf 1/4 leaf	
Dog-tooth violet		

7. Condition of Range as Result of Former Use

Medicine Tree Call

Portions of the exposed grass types on south and west exposures are overused, also around salt grounds and along ridges. The area as a whole is estimated to be 20% overused, 20% lightly used, 60% properly used.

The steeper side hills are lightly used at lower elevations. Side hills over 55% in slope receive little if any use. Downy chess occupies much of the area on the grass types.

Camp-Reimel CAH

This area is much the same as the Medicine Tree Unit. Areas along Reimel Creek have been overused in the past. Reimel Creek contains some of the most overused areas on the division.

East Fork Can

This unit is properly used over most of its area. Around salt grounds and on ridges the range is slightly over-used. Hot more than 10% is overused over the entire area.

Mendow-Tolan Call

This unit presents approximately the same appearance as the East Fork Unit.

8. Soil Moisture Conditions

Soil moisture conditions varied from damp to wet over the entire East Fork Division. Very satisfactory soil conditions were found on all the ranges examined. As again . While contempon . The street Could . The contempon and . The contempon and

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9. Conclusions as to Vegetative Readiness

The division was found to contain two zones; Zone 1, 4800' to 6800', with the upper limits roughly paralleling the lower limits of the lodgepole pine type, and Zone 2, 6800' to the highest elevation of over 7000'. Vegetative readiness was determined as -

Zone 1, May 20 to 31; average May 25, 1938. Zone 2, estimated to be ready June 10 to 15, 1938.

10. Principal Porage Species for Spring and Summer Ranges, East Pork Division

Grasses, 75%		Weeds, 15%
Agropyron spicatum Festuca idahoensis Calamagrostis rubescens Koeleria cristata Poa secunda Carex geyeri Fhleum alpinum Bromus tectorum Festuca scabrella Carex atrata Shrubs, 10%	20 10 15 3 5 10 T 10 2 T	Achilleë lanulose 1 Arenaria hookeri T Arnica cordifolia 3 Ealsamorrhiza sagittata 5 Frasera discolor T Lupinus sp. 3 Pentstemen sp. 1 Leontendon taraxacum 1 Quamasia esculenta T Zerophyllum tenax T Aster T Fragaria 1
Alnus Arctostaphylos Cornus sp. Odostemon Rosa sp. Symphoricarpos Vaccinium scoparium Artemisia tridentata Corcocarpus montanus Chrysothamnus Furshia Fentstemon Ceanothus sanguineus	TITITS 4 TTTI	

CONCLUSIONS ON SEASONAL UNIT

Medicine Tree Chil

Zone 1, proper opening date is May 15. Zone 2 reached readiness about June 10, 1938. Ready June 1 of average year. The movement of cattle to Zone 2 can be controlled by salting the lower elevations of Zone 1 early in season.

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Comp-Reimel Car

Zone 1 is estimated to be ready May 15 of the average year. Zone 2 is about the same as Zone 2 of the Medicine Tree Unit. May 15 is recommended as the proper opening date. Cattle should be kept in the lower some until the upper some is ready.

East Fork Call

Since the greater portion of this range lies within Zone 1, he opening date is set at May 15 with the further recommendation that the range be studied each year by the ranger before allowing cattle to graze on it. A sliding opening date as late as June 1 would be preferable on this range.

Meadow-Tolan Chil

This range is later in development than the other ranges on the East Fork Division, due to its north exposure. The greater portion of this range was not ready for grazing this year until the June 10-15 period. Since this year was considered to be from ten days to two weeks late, the opening date recommended for the Meadow-Tolan Unit is June 1.

2. Seasonal Zones

Unit	Zone	1	2000 2
Medicine Tree Camp-Reimel East Fork Meadow Tolan	4800' to 4800' to 5000' to	62001 62001	6200' plus 6200' plus 6200' plus 6000' plus

3. Water Conditions in Seasonal Unit

Water conditions were similar in all zones found. Water was sufficient for all zones during their season of use.

4. Soil Moisture Conditions

Soil moisture was less in the lower and more exposed situations, such as the grass types on the Medicine Tree and Camp-Reimel Units, than in the higher timbered areas. Soil moisture conditions were satisfactory in all zones in 1938.

5. Stocking on Unit

As range survey was conducted on the East Fork Division during 1937, the management units have been subdivided into distribution units.

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Actual stocking for 1938 by distribution units is given. All stock entered the ranges during the period May 15 to June 1, 1938

Medicine Tree Unit

Robbins Gulch D. U. 75 head (62 on, 13 off)
Medicine Tree D. U. 141 head (135 on, 6 off)
Franklin Gulch D. U. 83 head (all on)
Elk Gulch D. U. 136 head (130 on, 6 off)
Doren Gulch D. U. 94 head (all on)
Fox D. U. 35 head (15 on, 18 off)

Camp-Reimel Unit

Wallace D. U. 33 head (25 on, 8 off)
Dick D. U. 49 head (45 on, 4 off)
Waugh D. U. 76 head (74 on, 2 off)
Andrews D. U. 61 head (31 on, 30 off)

Rast Fork Unit

Hard Creek D. U. 125 head 44 heed Cemeron D. U. Lynon D. U. 68 head Bertie Lord D. U. 131 hoad 81 head Ouldy D. U. Jennings Camp D. U. 68 head 60 head Tepes Creek D. U. Cub Creek D. U. 37 head

Mosdow-Tolan Unit

Sage Brush D. U. 54 head Dowling D. U. 34 head Springer Creek D. U. 71 head Tolan Creek D. U. 86 head

6. Estimated Carrying Capacity

Medicine Tree Dait

Robbins Gulch D. U. 85 head Medicine Tree D. U. 142 head Franklin Gulch D. U. 75 head Elk Gulch D. U. 270 head Doran Gulch D. U. 94 head Fox D. U. 35 head at water measure reals up our took pelapoon deaded and particular too areas.

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Camp-Reimel Unit

Wallace D. U. 33 head Dick D. U. 61 head Waugh D. U. 76 head Andrews D. U. 61 head

Best Fork Unit

Hard Creek D. U. 125 head Cameron D. U. 44 head Lyman D. U. 68 head Guidy D. U. 81 head Bertie Lord D. U. 131 head Jennings Camp D. U. 68 head Topee Creek D. U. 69 head Cub Creek D. U. 37 head

Meedow-Tolan Unit

Sage Brush D. U. 68 head Springer Creek D. U. 88 head Tolan Creek D. U. 121 head

7. Range Improvements Recessary to Obtain Sessonal Control

Medicine Tree Unit

- 1. Construction of drift fence along Cameron-Rye Creek divide, 7 miles in length. Estimated cost per mile, \$250; buck-and-pole fence. Purpose: to keep cattle from drifting into Rye Creek area from Cameron Creek area.
- 2. Spring development at head of Elk Gulch Trail. Purpose: to get better utilization during latter part of season at head of Elk Gulch. Location, HwgSwg Sec. 6, 7. 1 H., R. 19 W.
- 5. Water development at head of Spring Guleh. Location, NWINE Sec. 7, T. 1 N., R. 19 W.

East Pork Unit

- 1. Development of spring in NW NW Sec. 6, T. 1 N., R. 18 W.
- 2. Development of spring in SEISE: Sec. 31, T. 2 N., R. 18 W.
- 3. Water development in Guide Creek, SWINE; Sec. 20, T. 2 N., R. 18 W.

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Meadow-Tolan Unit

- 1. Grade trail into water on Springer Creek; Sec. 4, T. 1 N., R. 18 W.
- 2. Grade trail into water on unnamed creek across East Fork from Jennings Camp. Location, Sec. 35, T. 2 N., R. 18 W.
- 3. Construct 3/8 mile of drift fence on Tolan Greek; cost \$220; buck-and-pole fence, on South Fork of Tolan Creek. Purpose to keep cattle on Tolan Greek range.

8. Recommendations for Obtaining Proper Use of Range

Salting

Place salt low down during first part of season.
Cattle do not utilize open sidehills at low elevations. These areas reach readiness first and contain much good feed. Move salt to higher elevations as season advances. Salt on spur ridges, not on main ridges.

Hording

None necessary if cattle are properly salted.

9. Areas Which Cannot be Used Due to Lack of Water

The only areas which cannot be used correctly during proper season due to lack of water are found in the vicinity of Sula Peak. Water development will adjust this difficulty.

10. Information to Assist in Administration

Watch for effect of fellen bug-killed lodgepole pine on cattle distribution. Large amounts of bug-killed timber have fallen during the past winter and will have a bad effect on cattle distribution.

SUMMARY

1. Seasonal Units

-	Division or Allot- ment, or Parts of.		440	sent son			mded	
	Medicine Tree Camp-Reimel East Fork Meadow-Tolan	5-15 5-15	to	10-31 10-31 10-31 10-31	5-15 5-15	to	10-31 10-31 10-31 10-31	

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Seasonal Zones

1938 adjusted to average year, considering 10 days late.

Medicine Tree 4800'-6200', May 18 to Oct. 31 6200' plus, May 25 to Oct. 31

Camp-Reimel 4800'-6200', May 15 to Oct. 31 6200' plus, May 25 to Oct. 31

East Fork 5000'-8200', May 15 to Oct. 31 6200' plus, May 25 to Oct. 31

Meadow-Tolan 5000'-6000', May 20 to Oct. 31 6000' plus, June 1 to Oct. 31

Note: Since cattle do not arrive on the ranges above 6000' until after June 1, and since the separation of these zones. is impossible except by costly drift fences, they are given as information only. The opening date should be controlled by the complete readiness of the lower zone. Cattle can be kept in the lower zone during the first two weeks by the proper use of salt.

General Recommendations

Further study of feeding conditions in the fall to determine whether the October 31 closing date is too late.

Purther examination of the cattle movement on the range to determine whether the range could be more properly used if water were developed and drift fences built.

an attempt should be made, by salting at low elevations early in the spring, to utilize the good feed on the lower side hills. This would prevent too early use of ridges at higher elevations, many of which show heavy use in the past.

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RESULTS OF THE APPLICATION OF THE AIR TEMPERATURE METHOD TO THE DATE OF READINESS DETERMINED IN 1938.

Since the compilation of the original report, the average date of vegetative readiness for the Bitterroot spring ranges has been determined, using Lommasson's "Air Temperature as an Index for Vegetative Readiness" method. The average date of vegetative readiness on the Bitterroot spring ranges was found to be May 15. This date was within five days of the date set by the author during field work.

Since the average height of the spring ranges studied was 5000', the vegetative growth during the winter months was considered to be negligible. The computations, therefore, commence on March 1, and continue through to the date of readiness. Hamilton weather records were used as a basis in determination of the dates of readiness. Victor and Corvallis records were used where Hamilton records were incomplete or missing. Since the distance from Hamilton to these towns is relatively short, there should be no great difference in the long-time average. The years 1899 to 1938 were used in determining the average date of vegetative readiness. The year 1902 is not used in the average as no complete climatological records are available for this year at any of the Bitterroot stations.

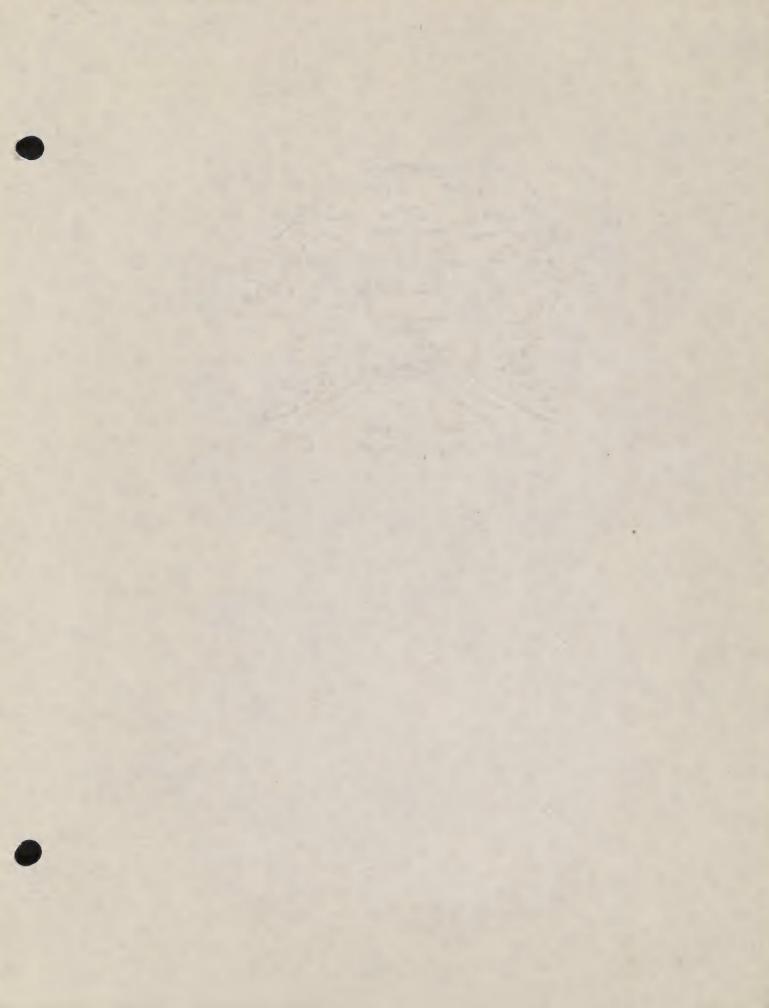
The earliest date of vegetative readiness for the years studied was April 20, 1910; the latest date was June 13, 1922. The number of plus degrees necessary to bring the ranges studied to vegetative readiness was determined to be 1577. The accompanying graph shows vegetative readiness by years, 1899 to 1939, administrative leewsy limits and the trend of early and late seasons.

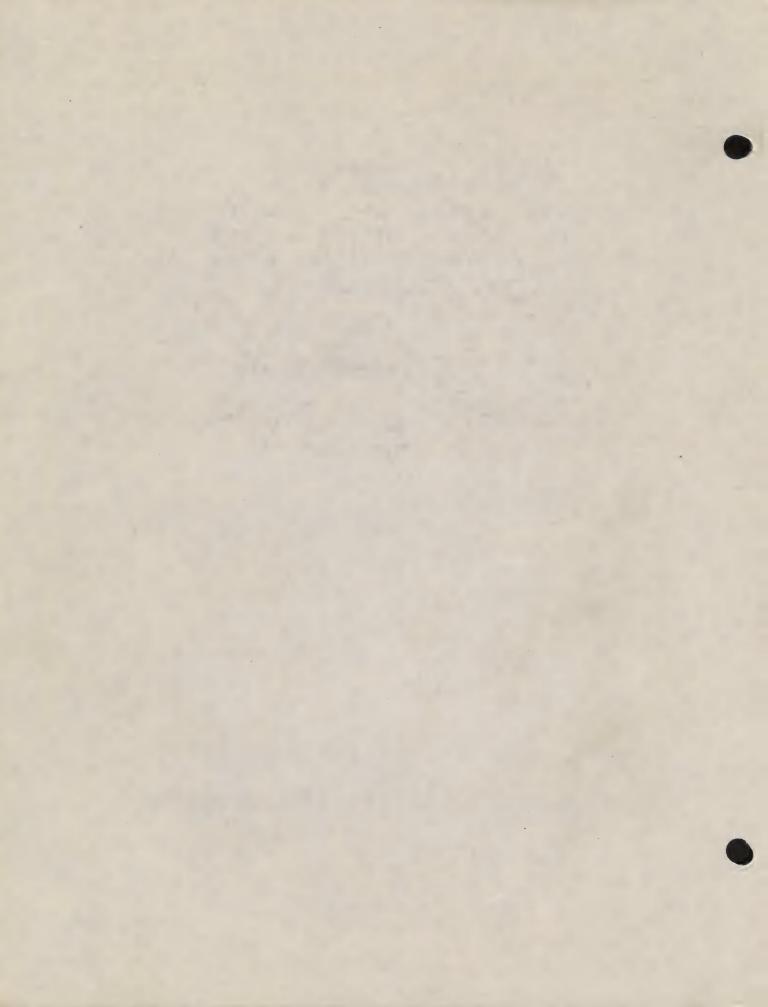
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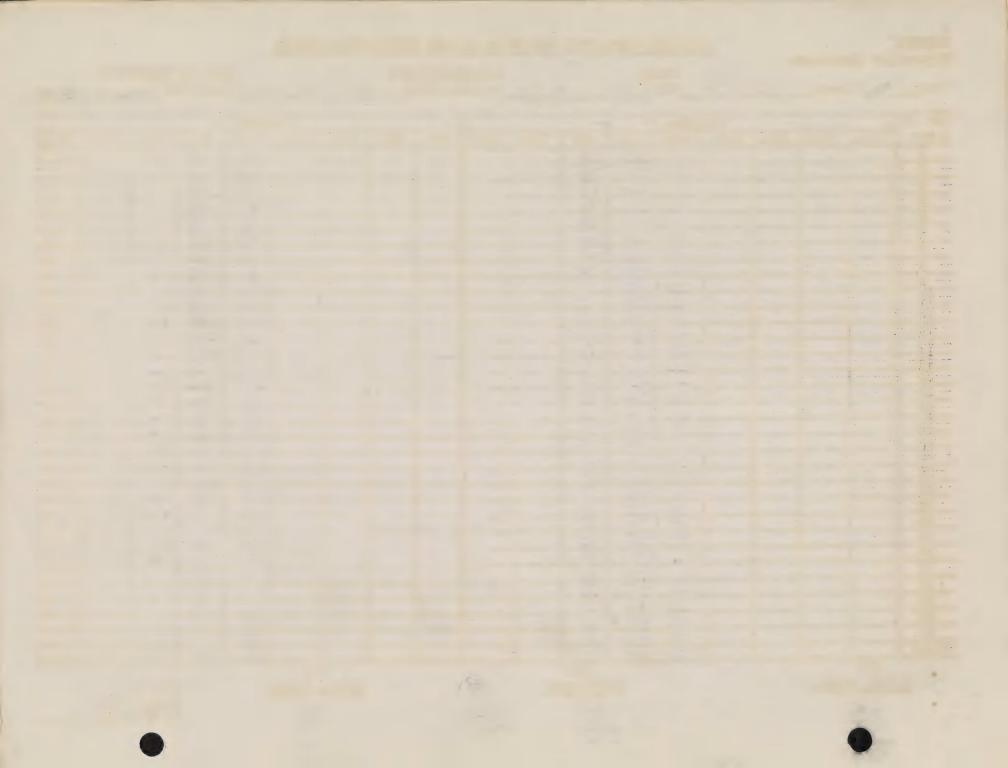


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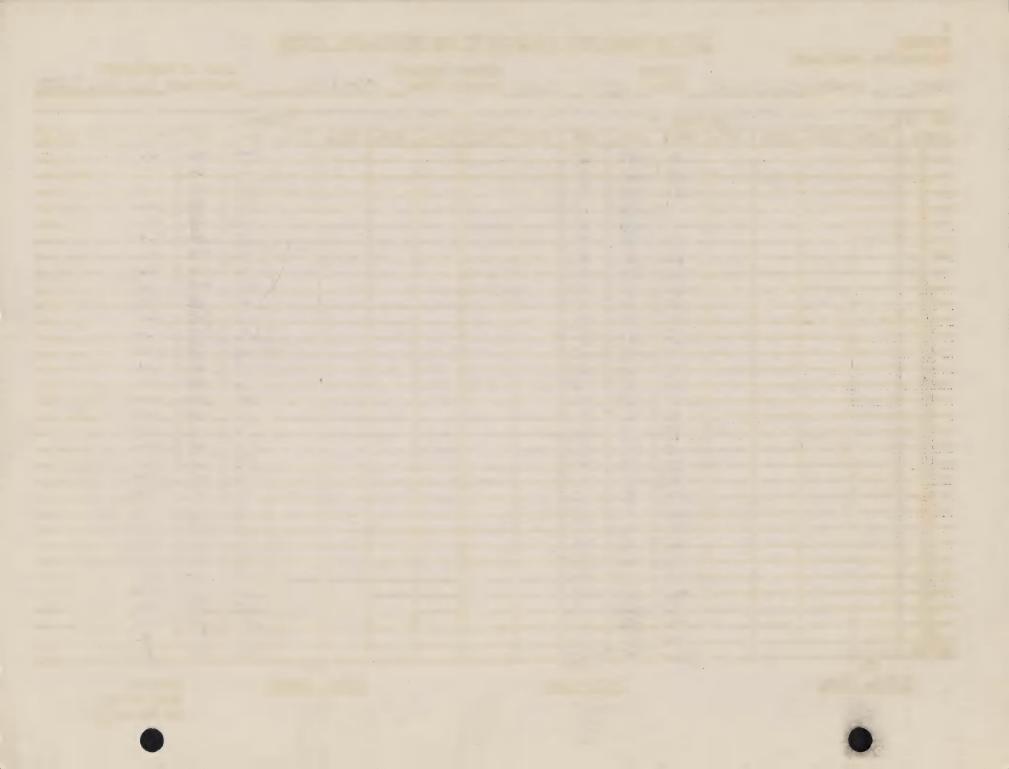
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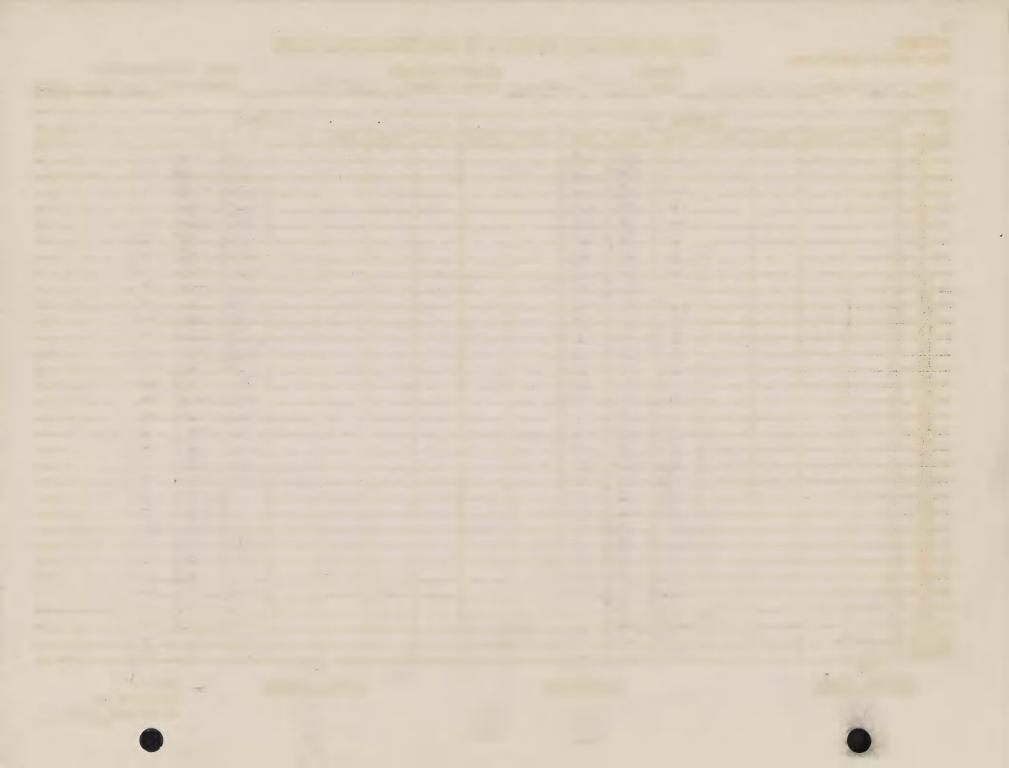
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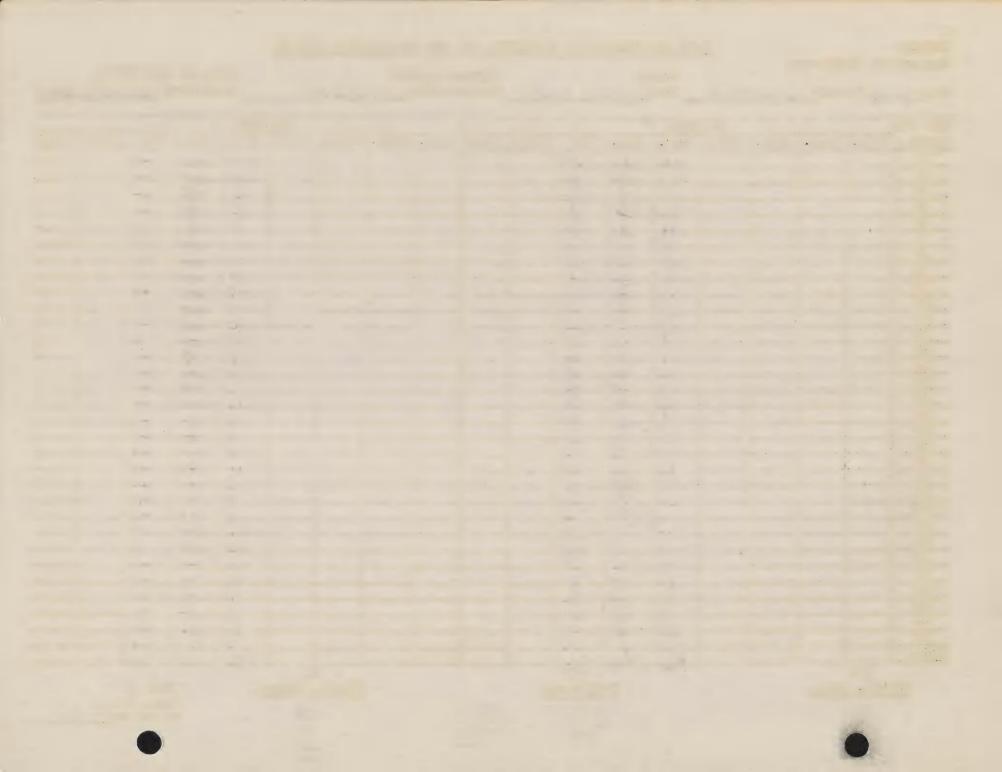


Year 1904 Forest Mitterpoot

Range

Climatological Unit Station Used Station Used

Day of				Max	cimum	+								imum	-			
Ionth	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Jul
1					8	22	31								6			
2					2	88								18_	- 6			
. 3					8	30								20	1			h, sy powerfu sy biddel and market and a side
4					15	28	220							12	-			Company was a residence of
-5					25	28	31							7		2		
6					23	19	20							- ACC 1660	2			
7					24	19								CORP. Miles				······································
8					18	29	28								5	9		
9					11	40	29 41							3				numerory of his management of the little
10					16	39	33							7				
11					16	40	33							1		400.00		Maria contains an estimated
12					18	43	33 - 51 - 29							8		-	Same un adjective syangages ne de propie	
13						40	30							- 6				
14					18 23	48 43	30							- 6				Series and descriptions of the series
15					9	31	43							8				
16					13	<u>31</u>	43 44 49 39 30 44							13	3			
17					13 17	-39	49							- 5				
18				Winness and a second agreement agree	- 11	40	30							1				Les vontes augustrasses
19					9	40 33	30							8				-
20					22	29	AA							-				
21					33		A77							7		-		
22					11	-28 -24	47 38							ė	\$00 mg	-		
23				Andrew Control of the Annual Andrew Control of the Annual	8	20	43							77	AND SHIP	2000-000-		
24					-	27	26							25	***	-		
25					3	37	26							31	-	4		
26					a	43	37							26	***			
27					13	43	43							16	****	40.00		
28					18	35	42							2	-			
29					3	20	39							2	40.00	40.40		
30					26	29				-				17	2	-		
31					3/8	X	36							- 6	32.	-		
otal					395	10 10	1005							275	32	12		
To	(1) otal, F	- demonstrate				Di	(3) ifferer	5	* 2116 * 1577			Total,	2) Minus		Y	ear of		LD:



Vegetative Readiness

Range

Climatological Year Forest Unit Station Used Station Used Date of Vegetative Readiness - 6 1005

	-																	
Day of					imum	+								nimum	-			
Month	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
1					-35	23	27									2000-2006		
2					38	23	22											
3					-30	98	-16							3	6	344.60		
4					27	30	-63								6			
5					30	42												
6					-25	42	53°							-				
7					-22	31	48											
8					- months		43											
9					28	-84	41									**		
10					28	16												
11					16	23	44							4.5				
12					1	20 30	43 48							18 16				
13					18	27	90							17	9	0		
14					20		00							offic F				
15					20	25	29 35							3				
16					-31	18	47							7				
17					0.0	- 28	43											
18					- 28 - 23	34	- 28									9		
19			Appir to the control of the control		- 00	00	42							4			5	
20					22	28	-34											
21				Page Name of Control o	17	- 30	- 20											
22					20	34	29											
23					24	40	00											
24					16	42	25											
25					10	-40	2.0											
26					17 14	51	36 33											
27					7	20	- 20							6	3			
28					13		33							-				
29					70	27-	30							-				
30					100	60	61							-				
31					12	100												
Total					648	an ery eye	33.43							103	20	6	Name of Street, Street	
	(1)				OBS	O.L.	(3)						2)		20.00	Annual Section Control of the Contro		
To	tal, F	lus,				Di	fferen	ce				Total,	Minus	3,	Y	Tear of		

Examination on Ground



G STUDIES Vegetative Readiness

DATE OF VEGETATIVE READINESS BY AIR TEMPERATURE METHOD

Range

Climatological

Date of Vegetative

Year 1908 Forest Mitterwoot Unit Spring Range Station Used Wardline Readiness 10, 1000 Day of Minimum -Maximum July Nov. Feb. Mar. Apr. Mav June July Month Nov. | Dec. Feb. Mar. June Dec. Jan. Jan. Apr. May 14 16 -cliff-repre-2 400.000 3 19 4 7 15 SN-605 6 30 2 7 9 33 10 11 12 13 14 15 16 17 18 260 200 505-40k 19 400 -100 (09: 20 -21 -22 20 21 -Selbs repair 24 25 --26 -400.000 27 30 -400-406 28 --29 16 40-10 -30 --1001-000 31 30 -Total 10 1010 (1) (2) Total, Plus, Difference Total. Minus, Year of Examination + 1931 1938 on Ground



STUDIES

DATE OF VEGETATIVE READINESS BY AIR TEMPERATURE METHOD

Vegetative Readiness

Year 1907 Forest Mtterroot

Range Climatological Unit Station Used

Day of				Max	cimum	+				4	-		Mir	imum				
Month	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
1				Marie 11	8	38	30							9	8	3		
2					18	24	28	The second secon						7	1091-0000	6		
3					12	23	27							24	465 MBC	7		
4					4	24	28							25		5		
5					8	26	30							11	(00 (00)	1		
6					19	28	35							2	100	100-100-		
7					39	34	34							5	1000 MM-	alle site		
8					37	38	23							2	COM-1000	6		
9					13	41	27							6	2	7		
10					35	31	38							-	300-300	- Span ships	The state of the s	
11					16	24	20							4	8			5
12					18	39	35							6	3	-		
13						The second second	-86							A	10.00			
14					23	40 35	89							100 500	1000-000-	100 100		
15					2.9	20	48							1200 Miles	3	400-3000		
16					20	25	47							2	1000 AND	1870 Miles		
17					24	14	43.							7	2	400-400		
18					377	38	40							AND 1000	4			
19					27	18	48							2000 MB	11	1000		
20					32	8	26							-	4440	400 50h		
21					31	35	34							-	-	-		
22					37	36	28							1	1000 1000	-		
23						28	3.7							-	-	-		
24					37	20	24							2	7			
25					16	18	23							8	9	-		
26					1	17	30							12	Mark wife	-		
27					8	18	33							14	6		A TOTAL AND	
28					12	20	36							1	15	-		
29					16	21	41							5	9			
30					24	31	42							1	3	-		
31					28	*	51							2	X			
Total					495	794	1039							144	87	35		
To	(1) tal, H	Oluc			the same of the sa		(3) Ifferer						(2)			Year o	f	
10		±us,				Adhening	-					AND DESCRIPTION OF THE PERSON	Minus	,				
	496 794 10					-	2328 266 2062		2062 1577 485			1	87 35 266			examing on Grou	ation und	1938



Year Forest

Range Unit Climatological Station Used

Day of				Man	cimum	+								nimum				
Month	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.		June	July	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Jul
1					17	9	45							18	7			
2					17	25	38							7	8	<u> </u>		
3					6	40	17							18	4			
4					8	29	30							8	6			
5					***	23	35							11	9			
6					11	12	48							23	5			
7					8	19	44							7	7			
8					15	32	93	1						-	7			
9				hantorumpanupumhnum ap 6 may mor	00	31	23	***************************************						-	-			
10					54	33	10							10	-			
11					31		99	1						*7		1		
12					21	44	22 23				Andreas - Andrea			2	**			
13				***************************************	18	40	28 *							-		photococcurrence (a. 170/00/07/04)	Account the second	
14					25	32	31							**	-			
15					33	29	31 29								400-000		And the same of th	
16					34	30	23								***			
17					19	34	30							4	**			
18					8	40	38							8				
19				Alestin tempe b tembertanes	12	47	23	1					-	10	***			
20				William Company of the Company of th	22	38	29	-						5	***		-	
21				***************************************	17	29	29							8	***		and any participation of the same of the s	
22					20	30	21							2				
23					25	31	32	1	1					-	-			
24			Province on the day and a construction		29	26	38	 				1		-			And the same of th	
25					28	10	37						1	8	1			
26					13	24	21					1	1	7	8		-	1
27					9	28	19							7			a digital company and the company of	
28					8	23	34						1	10	**			
29					1	The state of the s	38	-					1	12	4			
30					24	30 36	21	-				-		īī	-	-		1
31					8	W	14							8	X			1
otal						STATE OF STA			-	-		-		196	84			1
	(1)				553	905	(3)						(2)					1
m.	otal, I	27116				D	iffere	200						7	,	Year o	f	
10	553	Tus,				- Andrews	Mar		087 877			Total	Minus	,			ationound	



Vegetative Readiness

Range Climatological Date of Vegetative
Year 1900 Forest Unit Station Used Readiness

Day of Maximum + Minimum -Mar. Month Nov. | Dec. Mar. | Apr. | May Feb. Mav June July Jan. Feb. | June July Nov. Dec. Jan. Apr. 26 2 24 10 and the 910 mile 10 19 46 40 5 14 16 -6 17 12 21 12 7 21 12 8 10 **190** 9 10 400 400 10 10 10 40 KG 77 20 500 MM 12 200 650 13 6 veh-455 14 west light 15 20 16 -17 -HIR GOL 18 30 565K-2000 19 20 -21 42 100 104 22 10 -SEC. SEC. 1000 MIN 24 41 -25 26 referrible: 10 mm 27 20 -Min-Mills side retire 28 27 29 30 10 1055-3005 -000-1000 30 -31 12 Total 162 (1) (2) (3)Total, Plus. Total, Minus, Difference Year of 162 Examination 2024 on Ground 1577

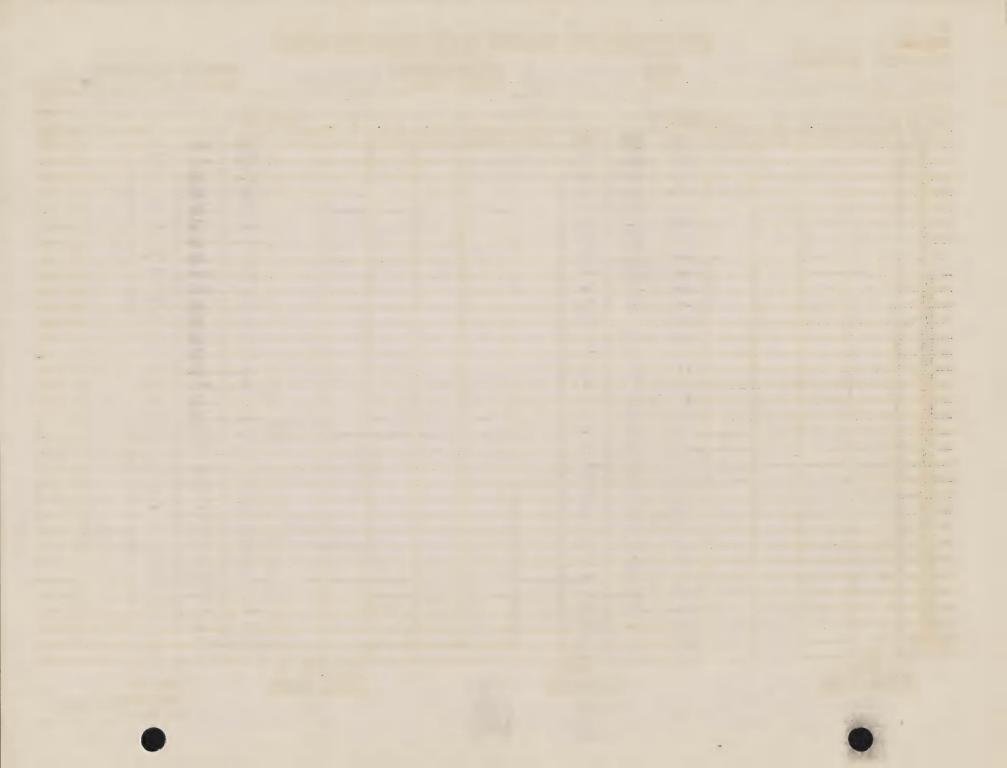


Range Year 1010 Forest Mitterroot Unit Spring Range Station Used Randlton

Climatological

Date of Vegetative Readiness April 20, 1910

Day of Minimum Maximum + July June Feb. Aur. Month Nov.! Dec. Jan. 1 Feb. | Mar. Apr. | May July Nov. Dec. Jan. Mar. June 14 35 105 ONE 465-566 31 27 --100-100 3 405-960 4 5 6 -100-100--7 -40.49 400-00 9 - Hall William -10 ---- CONTRACTOR 12 -13 -400 FFR 14 10000 10000 15 -16 17 ADDE-LINE 100 -18 --000-000-19 20 AUX 1000 -100-1005 400-100 22 -100 100 -23 46.06 aux star -24 --40-44 25 -400 400 26 100108 -27 100 miles 1405 HERE 28 29 500 - 500 s 30 100.00 400 Miles 31 50% (Mr. Total 49 (1) (3) (2) Total, Plus, Difference Total, Minus, Year of Examination on Ground 3514 3244 918



Year 1011 Forest Ditterment

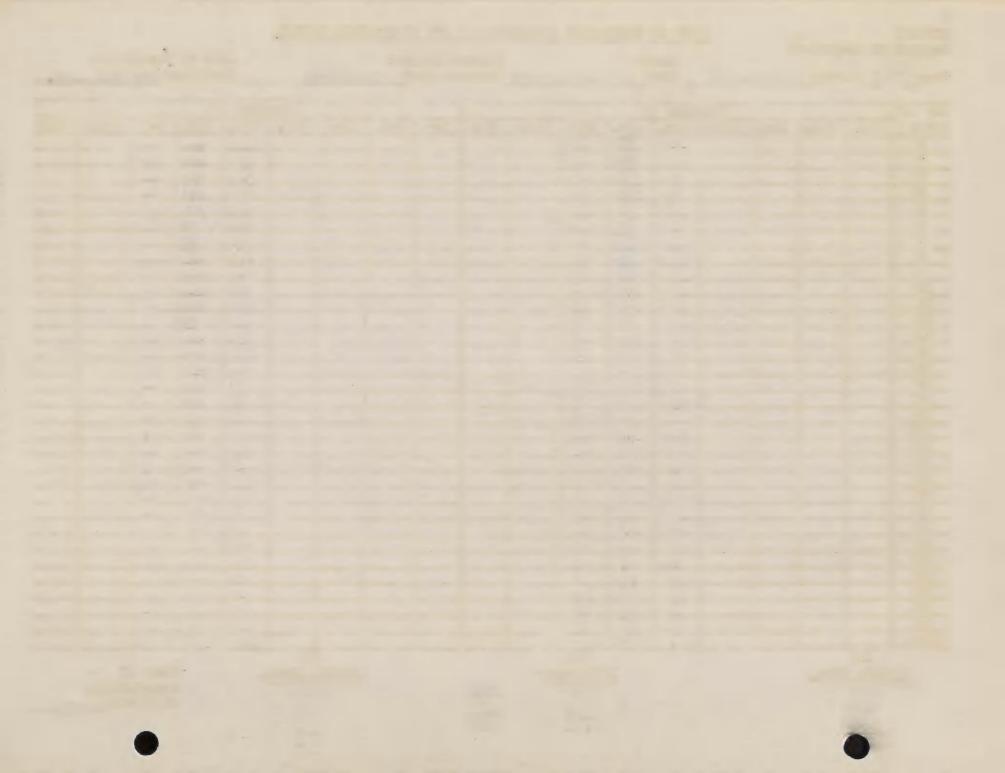
Range

Unit Spring Range Station Used Mamilton

Climatological

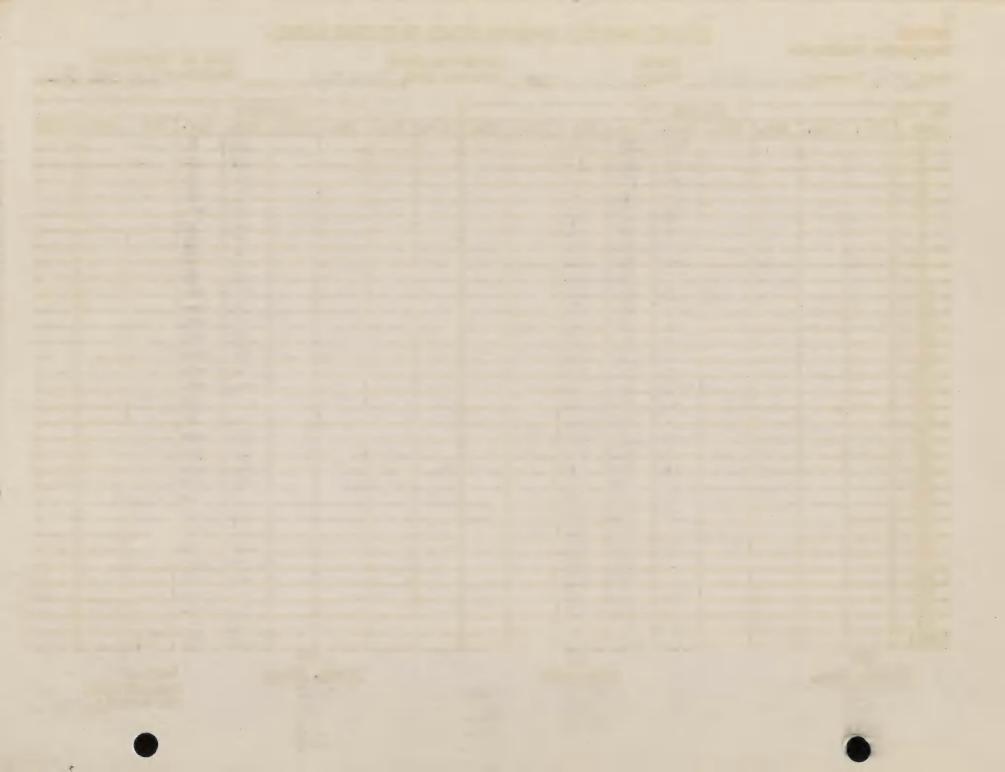
Date of Vegetative Readiness May 10, 1011

Day of				Max	imum	+							Mir	nimum	-			
Month	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Jul;
1					-	32	33							30				
2					9	29	32							25		200.00		
3					8	18	33							14	A	444-455		
4					4	28	44							11	2	***		
5					13	12	53							3	8			
6					23	18	38								17			
7					23	23	34		T. Carlotte					100-200-	3	-		
8					18	34	34								A			
9					18	32	28_							100.000	- CONT.			
10					20	22	22							4	400.000	100.000		-
11					19	21	32								4			
12					21_	77	38							6	0	200 200		
13					29	12	34					Majora de militar de la forma de la compansa de la		3	0			The state of the s
14					27	19	24		1					200-300	0	100 (00)		Market and the second s
15					27	31	10							3	3			
16					27 26	30	27							2	200 Alex	200 AS		
17					25	26	23					************************		3	6	100 100		
18					28	24	24							4	4	960.000		lenii sironilingos, compilyempoliye social
19					32	13	22							400.000	2	400 MIC		
20					34	34	30							100 400	106 00k	Mile Sale		***************************************
21				-	32	34	30									2		
22					31_	28_	41							2		40.00		
23			-		30	27	36		1							50-40A		
24					19	36	28							400-100-	-	- MARIE - MARIE		
25			***************************************		24	39	25							5	100 100	200 000		
26			terinos conseguiros, printeres	***************************************	17	33	22							10	***	200 200		
27	-				15	32	23							1	3000-000-	ant an		
28					28	15	27							2	400-400	2		
29					32	19	34							-	400-000	Alex sax		-
30		-	****		32_	24	43							40/4/0	- CO CO	000 MIN		
31		` .		-	37	X	46							suicatile.	2	plan selle.		
Potal					691	737	990							126	74	3		
To	(1) otal, F 691 737 990	Plus,				Di	(3) Ifferen	mention (New Input)	2215 1577 638			Total,	2) Minus	5,	T	ear of Examina on Grou		38-



Range Climatological Date of Vegetative Year 1912 Forest Unit Station Used Readiness

Day of Maximum + Minimum -July Mar. Apr. July Month Nov. | Dec. Feb. | Mar. Apr. | May Nov. Dec. Jan. Feb. May June Jan. June -009-1035 -N 400 --450× 900× --Total (2) (3) Total, Plus, Total, Minus, Difference Year of Examination * 1768 on Ground



Vegetative Readiness

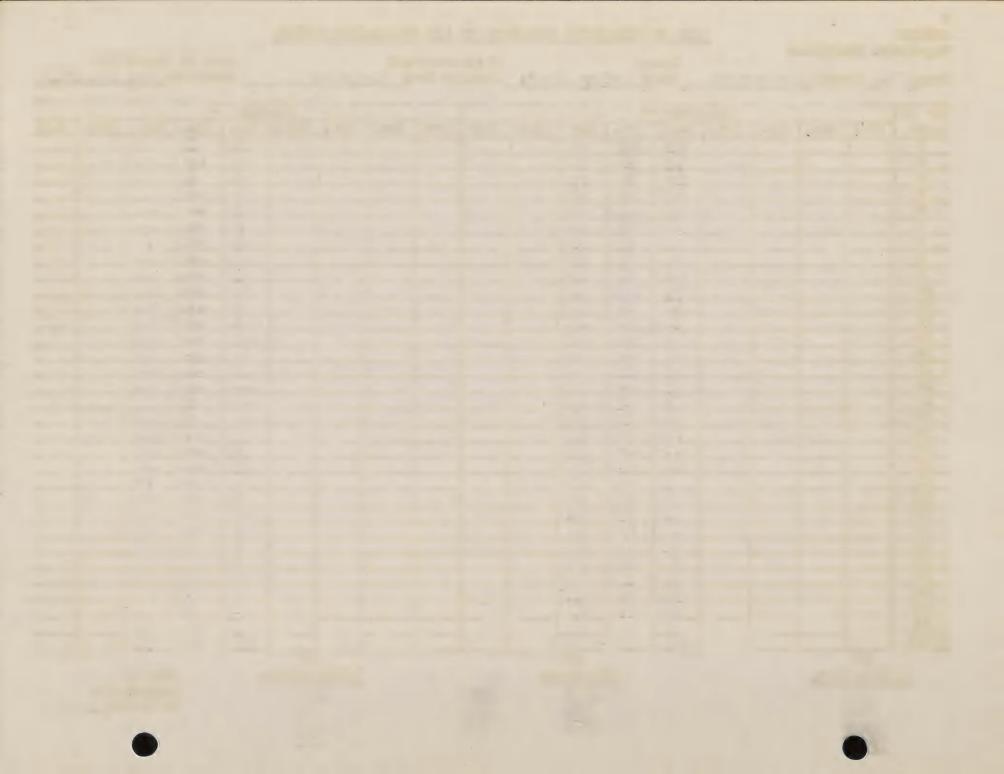
Year 1913 Forest Manage Unit Spring Range Station Used Readiness R

Range

Climatological

Date of Vegetative

Day of Maximum + Minimum -July Month Feb. Mar. | Apr. May Nov. | Dec. Jan. Feb. Mar. Apr. May June July Nov. Dec. Jan. June 11 5 6 11 19 2 13 12 18 -3 18 18 16 4 19 18 17 2 5 19 23 24 6 17 15 42 7 45 20 900 SIN 8 40 22 9 36 -10 33 77 35 11 30 30 16 200.00 12 10 46 -13 14 100 AUD-14 19 --000-000-15 12 41 30 7 Spin-topic 16 15 -17 10 33 22 2 18 10 1000 1000 19 20 Mile Sile 21 35 33 -22 3 15 19 100 23 24 43 12 23 100 (000) 1000 MHz 25 36 100 100 26 54 10 40 23 27 -Nine min 28 15 86 -State State 29 100-100 -00-00 30 -31 50 -Total 382 857 1051 10 (1) (2) (3) Total, Plus, Difference Total, Minus, Year of Examination 388 + 2290 * 1975 257 on Ground 857 - 315 + 1577 . I975 1.051



Year Forest Terror

Range Unit Climatological
Station Used Manualton

Day of	- Company	to the same of the		Max	cimum	+							Mir	nimum	tions -			
Month	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Jul
1					16	23	41							1	2			
2					12	33	48							400-100	***			
3					19	28	44							3	1			
4					16	35	36							100.00	100-000			
5					18	32	27							3	***			
6					23	33	30							5	AND AND			
7					30	27	41							500y-450p-	-			
8					31	29	47							45M 40M	400°-100°			
9					30	34	37							2	- MARINE			
10					15	36	40							10	-			
11					13	37	30							6	100 100			
12					33	37	35							8	1000 1000			
13					34	37	39							75001-7504	(MD) (MD)			
14					32	38	47							004 - 004	1001-0001			
15					21_	40	50							-	464.00			
16					24	33	40							-	***			
17					29	23	40							404.00	5			
18					24	32	46							300 min	4			
19					11	28	43							7	- Mile rapie			
20					10	23	45							5	-			
21					15	34	43							15	-			
22					27	35	46							8	-	and the second of the second of the second of		
23			***********	-	16	36	48							2	***	GURNA AT TRANSPORT AND TRANSPO		
24					18	30	39							-00x 40gh	-100-1100			
25			************		10	29	40							8	- MO-MAR			
26					15	32	41							4	3			
27					15	29	47							3	2			
28					22	17	35							9	305-005			
29					24	23	42							6	8			
30					25	34	49							2	3			
31					39	X	57							500-400	1			
rotal rotal	/-				667	942	1292							107	25			
To	(1) otal, F 667 942 1292					<u>D:</u>	(3) ifferer 2001 132 2760	*	2769 1577 1192			Total,	(2) , Minus	<u>.</u> ,	E	Tear of Examina on Grou	ation	930.

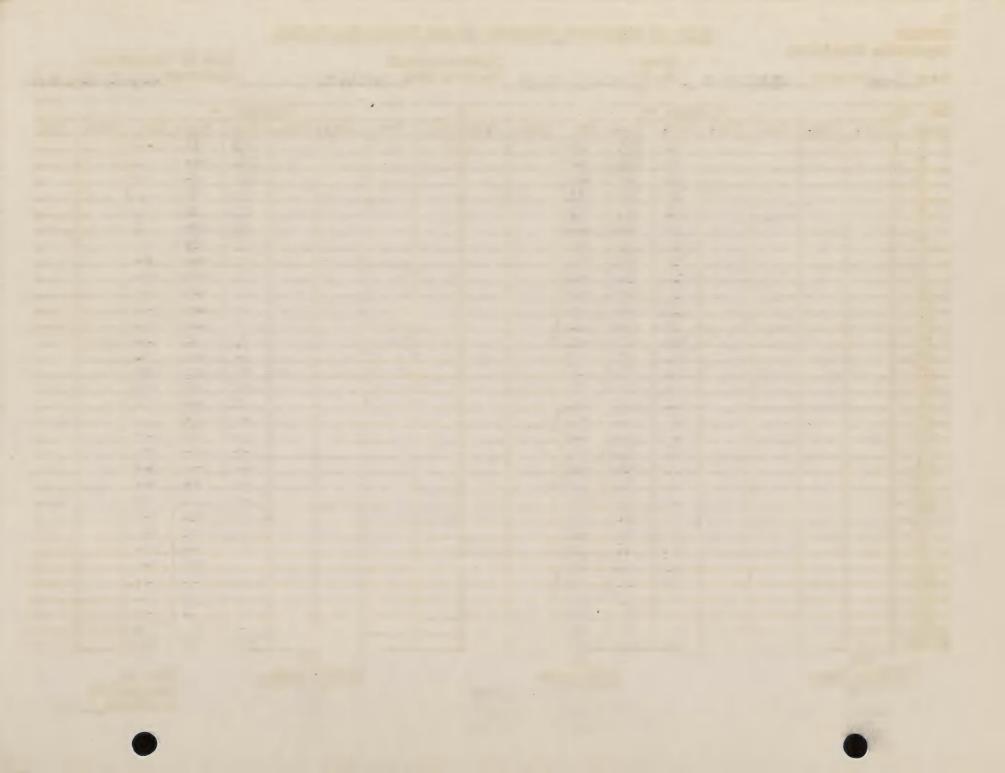


Range

Climatological

Date of Vegetative

Year 1915 Forest Nittercot Unit Spring Range Station Used Readiness Readiness Readiness Day of Maximum + Minimum -May Mar. May June July Month Mar. Apr. July Apr. Nov. | Dec. Jan. ! Feb. June Nov. Dec. Jan. Feb. 400-000 100.50 -MIN COR 100 100 300 000 SSIC-MID --(0) ---10-10 AND MADE ----NAME AND DESCRIPTIONS -Mile Spin ----Married . Total (1) (2) (3)Total, Plus, Difference Total, Minus, Year of Examination on Ground



G STUDIES

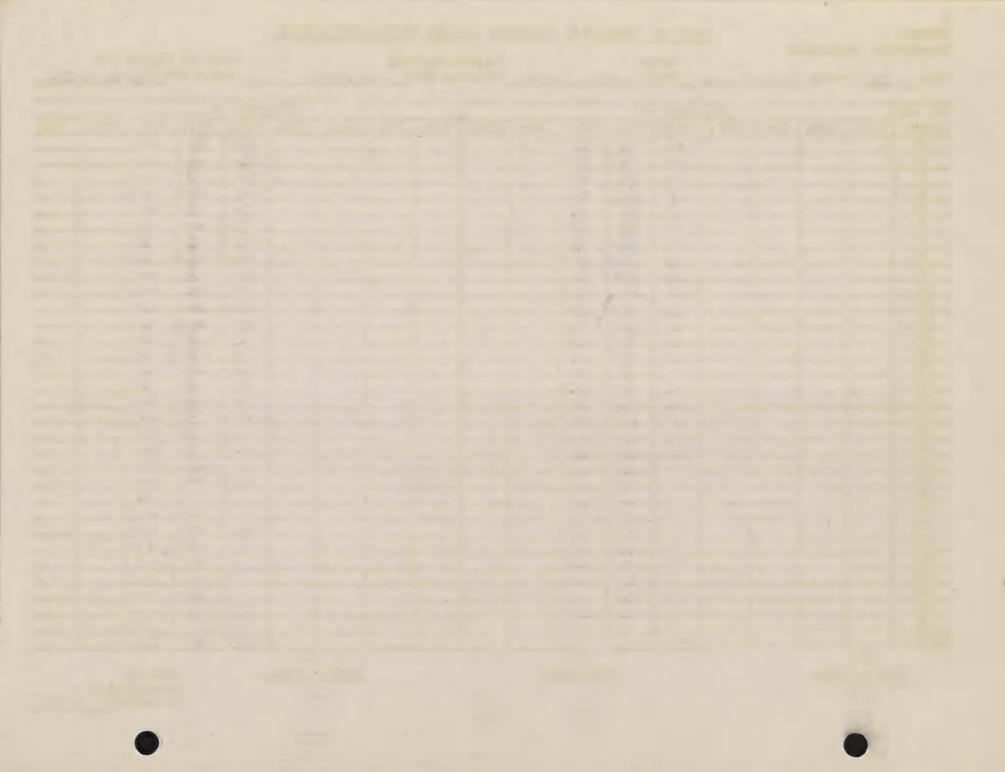
DATE OF VEGETATIVE READINESS BY AIR TEMPERATURE METHOD

Vegetative Readiness

Year Forest Unit

Climatological Station Used

Day of				Max	cimum	+				-			Mir	imum	4004			
Wonth	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Jul
1						23	31							10	- 53	680757		
2					4	21	38							20	Siller City	600 200		
3					18	27	42							27	4	Marie - 444		
4					1.6	22	42							4	2	-		
5					22	20	42							100.00	1	986 4 A		
6						24	47 0							8	1000 1000	100 m		
7					10	32	48							3	2	2		
8					16	23	37							4.4.00	40.44	5		
9					23	287	35							420-014	160 449	-		
10					33	30	23							· Constant	med make	"HARM" MEAST		
11			A		35	23	16							-		2		
12					38	- 26	18							(100 May	-	5		
13					33	-30	25							3	2	5		
14					92	-39-	-28							8	44 334	4		
15			7		39	-36	28									3		
16					33	28	34							- 33	3	3	-	
17					25	23	33							4	400 000	-246		
18					40	22	34							25/2006	2	- meditable		
19					33	18	20							60% Ta	3	- O(A) - (A) A		
20			production and an artist contraction of		23	28	-32							Spike with	1	THE PERSON		
21						25	25 18							100.00		AND THE		
22						28									50 Mp	338 404		
23						33	19								177	2		
24						39_	18					-		400 100	-	205.410	-	
25						47	27								and only	not sub-		
26					-	45	26_								white the same of	-		
27			-			43	34								- AM 1000	23.24		
28						38	- 34					-			Sale Line	(69.50		
						23	30								***	-		
30						25	23					-			5	404.00		
		` .				7	30	******************************					-	-	X	500 100	-	
otal	121		-		695	053	933							152	37	31		
TD.	(1)	27				T	(3)						(2)		-	T	0	
10	tal, F	- demonstratement				***************************************	fferer	AND ADDRESS AND AD				CONTRACTOR OF STREET,	Minus	,		Tear of		
	685 853 988					-	476 220 256		2256 1577 879				52 37 31 50		(Examina on Grou	ation und	38



Vegetative Readiness

Year 1017 Forest 110 Townson

Range

Climatological

Unit Station Used Hamilton

640

Date of Vegetative
Readiness June 6, 1017

Day of				Max	imum	+							Mir	nimum	000			
Month	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
1					-	8	28	38						40	22	1		
2					***	7	28	38						38	77	2		
3					***	14	23	24						35	7	3		
4					7	21	23	27						24	4007-4009	3		
5					8	27	29	33						10	2	77		
6					6	18	37	38 *						12	400-000	2		
7					4	22	33							27	1	2		
8					8	24	34							12	1	2		
9					4	24	37							14	1			
10					A	31	38							20	1004	100-100-		-
11					- 5	27	46				Adjusting and the state of the			27	435 546	gggi von		
12						24 20	49							25	486-486	(60 × 40 ×		
13					4									24	5	***		
14						17	39							20	1	40.40		Manage of the Second of Second
15					7	20	36							10	9	46.4%		*************
16					9	37	38							24		DEC AND		
17					6_	18	48							20	5	40 46		
18		Defendant and management			16	18	39							27	3			V-0
19					15	23	43							5	3			
20					15	51	49							8	1	405.000		
21					12	26	43							7	-100-000-	40.40		
22					9	28	49							11		-		
23		***************************************			13	23	38							4	-			
24					9	20	33							3	3	- 1000-1000		
25					12	26	28							11	40×40+	100.00		
26					12	20	46							31	-			
27					23	27	40							7	***	40.40		
28					16	12	39							4	-	-		
29					10	18	29							7	12	100 - 600		
30					4	25	34							13	980 AND	100		
31					6	X	33							12	2	7		
otal					247	614	1165	198						532	79	29		
To	(1) otal, F	olus,				* 2	(3) iffere	nce	1584			Total,	532	5,	E	ear of Examina	ation	1938
	1165						640 584	*	1577				79 29		C	on Grou	ina	1.90



Vegetative Readiness

Year Forest

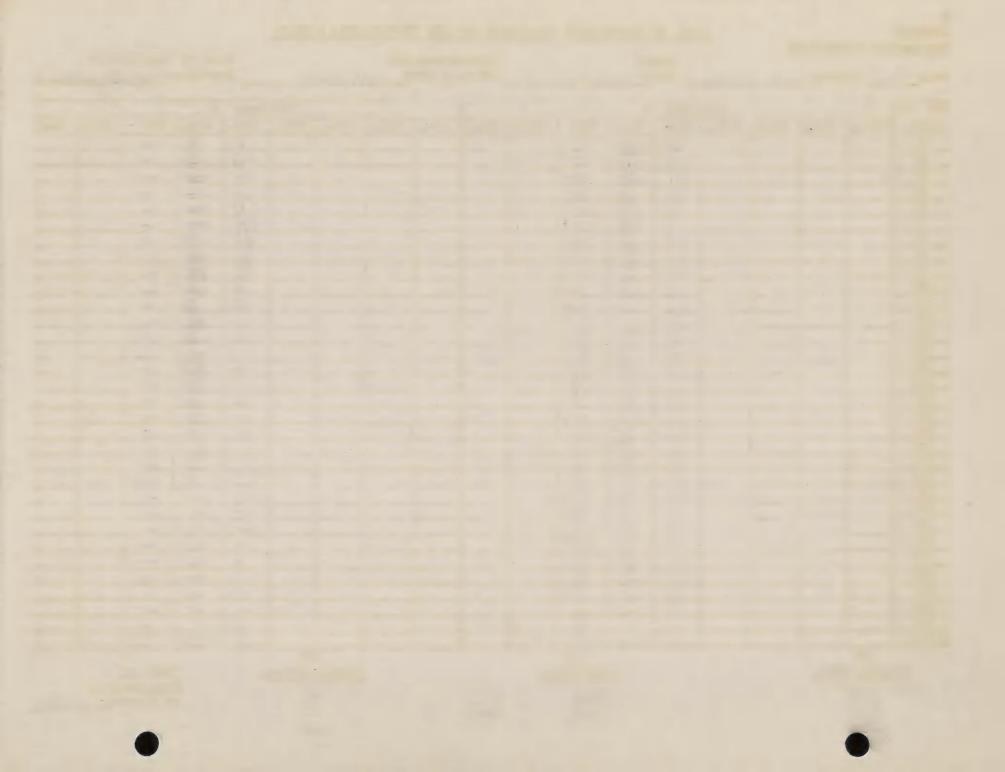
Range

Unit

Climatological Station Used_

Hemilton

Day of					cimum	+								imum	_			
Month	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
1					23		40							100 100	6	384 357		
2					67367A	1	49							AND AND	32	- COR- COR		
3					30	13	45							43.36	3	100 mg		
4					30	9	45							City with	17	2000 - 2100.		
5					12	27	63							14	400	4504-3Ve		
6					ty	Sin	0	-	-					10	AME TO A	NAME (SIA)		
7					20	33	53							1000	1000 N.S.	700 - 200 -		
8					00	30	23							- CO 14/04	5	SAR Value		
9					33	13	16							4	40.00	296.409		
10					20	23	23							1000	***	400 400		
11					23	30	- 84								8	100 TODA		
12					20	36	- 33									100		
13					17	33	43							A COLOR				
14					3.05									10	100	700 His		
15					27	13	43							THE THE		-00-00-		
16					31	16	977							1000 2000		1000 1200		
17					33	16	35							AND THE ST	-	1600 High		
18					31	10	32							(00 mm)	4	490 (Bibe		
19					10	123	51_							- Maria Carlo	988 MA	1000		
20					25	30	15							9600 4005	interme	A004 1070		
21					36	20									1000	Mary Char		
22						20	3.4								300 PM	and the same		
23					40	20	-36 37							all and	SM 200	100 mm		
24					33	20	30								400 ar	100 000		
25					43	35	20							444	160 S.A.	36 WE		
26					20	18	£273							10000 4455	1	(i.g. 1)(h		
27					2 Mg 2002	23	200							60 to	2	- Car - Car		
28					00	33	201							E S	olar store	1		-
29					33	50	63							100 miles	(1) Table	59.75		
30					-	30	63							333.50	100 100	-		
31					3.8	100	42							2		10 70		
Total					704	ARR 1								50	50	*		
	(1)						(3)						2)		Andrews and the Suprement of the spaces of	The second secon	Aller and the second	betrainer turn nyen vare hiddense
To	otal, I	Plus,				* 1	fferer	+ + +	2390 1877 803			Total,		<u>,</u>	Ŧ	Tear of Examina on Grou		35



Range
Year 1919 Forest Mitterroot Unit

Climatological Station Used_____ Date of Vegetative Readiness______

Day of				Max	cimum	+							Mir	nimum	eses.			
Month	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Jul
1					- 6	23	27						-	A	*7	-		
2					10	29	17							9	25	apile obje		
3			***************************************		10	30	19							8	50 m	2		
4					10							Appropriate Control of the Control o		53	-	9	,	
5					15	20	21							7	-	1		
6					3	15	24					harden and the second s	Magazine Armide Sandayara arma disanderi depende e May resulten	13	95.04	5		
7					8	19	20		-					12	3	6		
8			****			16	39							12		3		
9					6	26	29							10	11	-		
10					13	19	21							17				
11					18	12	20							3	3	8		-
12					10	28	24					~~~~		10	17	100.00		
13				The second secon	21	23	32							0	9			
14					13	24	49							A		-		
15					12	20	47							8	12			
16					9	36	27			er dentation in the control of the c			and the street and the street and the street and the street	-	10	9000-9505		
17					22	37	- 51_					Madadhassis or organization and account of the control		2		3		
18					22	19	50.			,				-	200 200	-		
19					18	33	53							11	4	ania.		
20					10	1227	51							11	107.00	100 100		
21					22	34	54							10	6	W 100		
22				,	21	35	55		Tales and the second se					77	3	***		
23					28	40	44							27	3	10-116		
24					18	47	46							A	100 Mar.	ages come		
25					17	31	50						power party party	12	40.40	-		
26					99	30	44							8	information			
27					33	30	88							5	***	-		
28					53	36	58							2	-	gille setti		
29					34	20	33							3	494 532-			
30			Andrew Control of the		35	30	17							***	46.49	(M) (M)		
31					26	Y	19								X			
otal					512	803								181	75	43		***************************************
- Anna Anna Anna Anna Anna Anna Anna Ann	(1)						(3)				L	(2)	LAGIL	1.82			
To	tal, F	Plus.				Di	fferen	ice				Total,		5.	Y	ear of		
Arregani						-	****	Appropriate and	0120			And the Person of the Person o	Marie in co. 12 - Published Samuel Samuel			xamina		
	03.6						411	4	2112				31			n Grou	7	1930
	512 803 1096					ARKON	299		1577				75				Military and a second	
	***					2	112	*	535			- ALANA MARINA	43 99					



Range Climatological Date of Vegetative Year Forest Unit Station Used Readiness Minimum -Day of Maximum + July Nov. | Dec. Feb. | Mar. Apr. Feb. Mar. May June Month July Nov. Dec. Jan. Apr. Jan. May June 17 5 26 18 11 14 24 2 20 -3 27 18 13 8 4 10 53-30A 5 18 -STORY ADM. 2 6 39 40 7 22 44 -466.000 8 10 24 41 -9 8 1885-169-10 18 --000-5748-11 400 150x -12 10 30 23 404 900 -13 23 30 17 --14 15 -16 16 21 40 100-100--17 17 38 16 -18 NOS 4600 19 41 -20 2000-2000-21 22 -4 2 -24 19 2 -25 37 date-tible 26 12 -1001-1000-27 10 1001100 -10 --29 17 600-c05 1000 MISS 30 21 --31 37 12 -Total 1022 258 (1) (3) (2) Total, Plus, Total, Minus, Difference Year of Examination 369 * 1667 258 on Ground 1022



DATE OF VEGETATIVE READINESS BY AIR TEMPERATURE METHOD

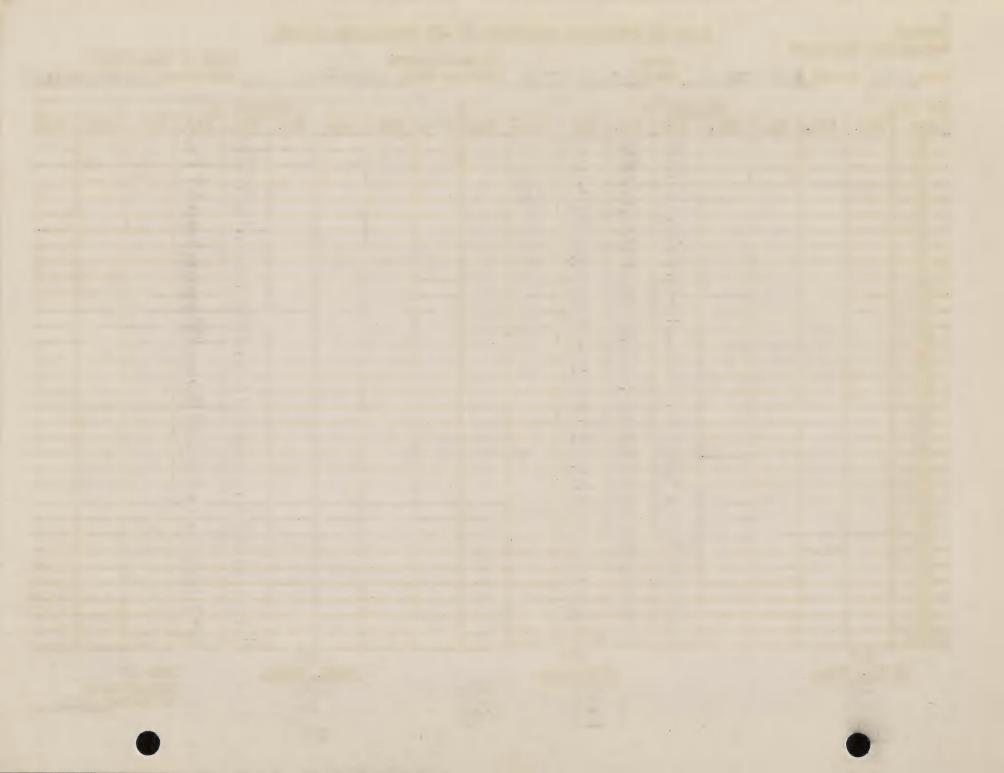
Vegetative Readiness

Year Sal Forest Bitterroot

Range Unit Daile Manya

Climatological Station Used

			AND DESCRIPTION OF THE PARTY OF	cimum	Promotion Committee Commit						distantin on amaterial dark in about 1 may 2.00		imum				
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				20	98	37							-	1000-000	-		
													40.40		0		
														-			
				15	0								-	-			
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				13	25	41								-			
				16	31	38							11				
				23	30	37							100-100-	make with			
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						35		***************************************					1				yris vinistition, , , publicarilly furtitive (
				15	22								7	1000-0000	na provincia di Santo del Campari, ancigan Pripi di Arti		angionim existentian qui
				20	27								5	1007-1008	***************************************		
				27	26								3	-			
				26	23	36							-				
				20	27	43							-	1	aller alban - cuar nous salainte		
				18	12	47							2	3			
				16	18	44							8	-			
				23	17								2	***			
			******		25	37							1	- March 1996			
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				33	X	37								444			
				594	752	1139							118	55	6		
					28 31 28 15 13 13 12 16 23 20 12 20 12 20 13 16 23 20 20 27 26 20 27 26 20 28 28 28 28 28 28 28 28 28 28 28 28 28	28 40 31 38 28 8 15 6 13 7 12 14 16 19 23 31 20 34 12 34 34 1 31 9 37 13 25 16 31 23 30 20 27 16 23 15 22 20 27 16 23 20 27 16 23 20 27 16 23 20 27 16 23 20 27 16 23 20 27 16 23 20 27	28 40 85 31 88 29 28 8 8 8 89 16 8 85 18 19 26 28 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	22 40 85 31 38 29 28 8 8 39 15 6 35 13 7 35 32 14 32 16 19 26 23 31 36 20 84 35 12 34 33 34 38 3	22 40 88 89 89 88 89 88 89 88 89 88 89 88 89 88 89 88 89 88 89 88 88	22 40 55 31 36 29 28 8 39 15 6 55 13 7 35 22 14 32 26 23 31 36 20 34 35 23 37 20 27 36 27 26 32 26 23 36 20 27 43 28 12 47 26 18 14 44 23 14 25 37 30 21 53 25 37 30 21 53 25 37 30 21 53 25 37 30 21 53 30 2	28 40 86 29 28 36 31 36 35 31 36 32 37 36 38 36 38 36 38 36 38 36 38 38 38 38 38 38 38 38 38 38 38 38 38	22 40 85 31 36 29 28 8 89 28 8 89 28 8 89 28 8 89 28 8 89 28 8 89 28 8 8 89 28 8 8 89 28 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	28	22 40 55 3 3 3 3 3 3 3 3 3	22 40 35 3	22	22



Year Forest Miller Co.

Range

Climatological Unit Station Used Date of Vegetative Readiness Amo 15, 1922

Day of				Max	cimum	+							and the second statement of the second	nimum	_			
Month	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Jul
1						17	27	36						43	9	A11.00		
2						63	20	771						34				
3					0	19	10	30						25		-		
4					9	12	10	40						33	100 x00	MR 101		
5				Proposition of the second section of the second section of		16	23	37						27	3	- MA		
6					17	203	27	33							77	4		
7					· ·	05	50	31						7		in the same		
8				portrophytena diasernonistrasanisti		21	16	30	harrings of the contract and the place of the season of the									
9					12	0	18	10						14		47		
10						10	10	27			dippendaphapserunan www.esuffermeethr		The same of the sa	-2-7				
11							10	30						10				
12						22			andalitida			000 0-u	parameter the first section of the s	18	30	Control of the Contro		
13					7	猪	37	30					Mary and the second	*3	- 18	1		
14					30		30	25			***************************************	and the same of th	The same of the sa	-	A	- Marie - Mari		
15					77	0	23	32						12		**		
16						10	33							1	- 15	-		
17					17	22	20		Parker nor describe and all displacements					-	24	40.00		
18					22	22	20							15	1007.100			
19				***************************************	24	30	25							1	2	- and a relieve		
20						OA	28							-	2	**		-
21			***************************************		97	30	24		-					6	0	994.59kr		
22					23	25	24							- 10K		10-10-		
23					7						A STATE OF THE PARTY OF THE PAR	Annual and the second section and the second section as the second		3	-	2		
24						10	30						-	6	4	THE CON.		
25					9	10	43							12	1	06.00		
26			PROPERTY OF THE PROPERTY OF TH		30	18	22							14	AND THE PERSON NAMED IN	-		*****************
27					12	34	9							11	4	1		
28						19	22							77	1			
29					15	20	24		***************************************		and the second s			19	3	-		
30					15	OA	20							1	***	200.000		
31					12	-	31							909-00M	X	**		-
otal					003	BAR	780	407						322	200	16		
	(1)						(3)					1	2)					
To	tal, F	Plus,				Di	ifferer	+	1669			Total,		5,	I	Cear of Examination Grou		sn_



G STUDIES

DATE OF VEGETATIVE READINESS BY AIR TEMPERATURE METHOD

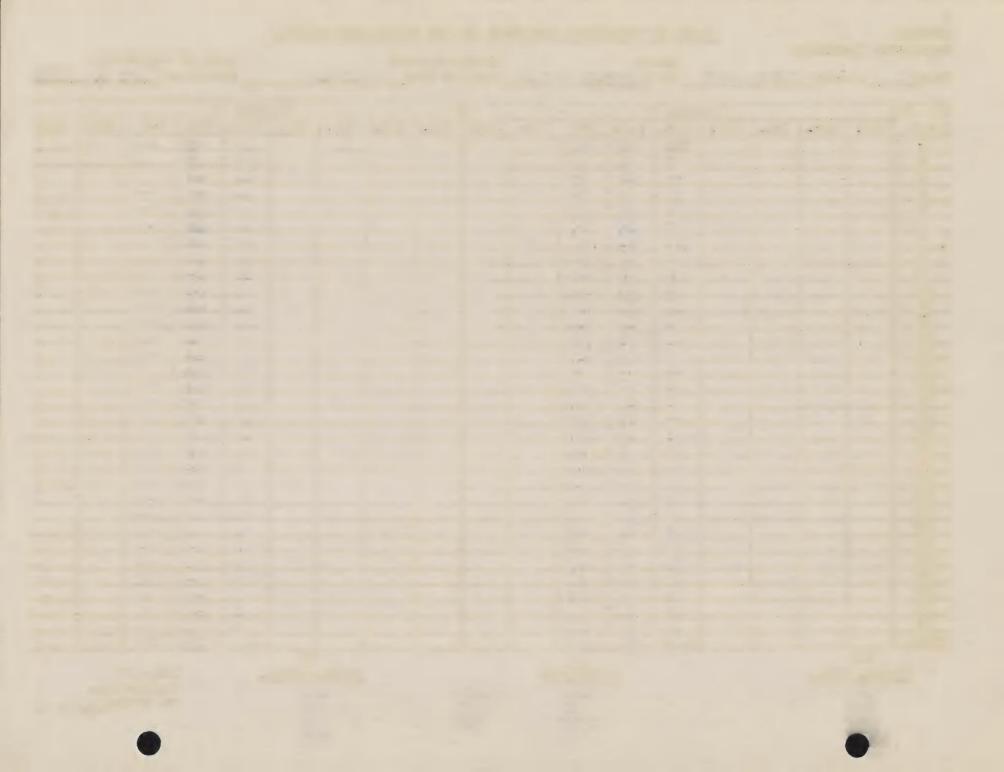
Vegetative Readiness

Range

Climatological

Date of Vegetative

Range Climatological Date of Vegetative Readiness In the Property of the Prope Day of Maximum + Minimum -Month Mar. July Feb. | Mar. | Apr. | May Dec. Feb. Apr. May June Nov. Dec. Jan. June July Nov. Jan. 18 18 30 8 400 100 -2 10 3 6 3 16 34 4 20 5 ALC: USA 6 36 11 7 8 100 100 9 10 SERV. 40.00 11 - profits - desire 12 26 10 18 13 21 100-006 14 15 3 16 30 17 17 18 #0 40b 19 20 21 -22 -13 21 31 -24 44 18 20 -005-1009-30 26 -27 28 100 000 29 34 -30 17 31 Total 333 (2) (3)Total, Plus. Total, Minus, Difference Year of Examination 440 92147 °1716 on Ground



DATE OF VEGETATIVE READINESS BY AIR TEMPERATURE METHOD

Vegetative Readiness

Range

Climatological

Year 1924 Forest Bitterwoot Unit Spring Range Station Used Mamilton

Date of Vegetative Readiness May 16, 1924

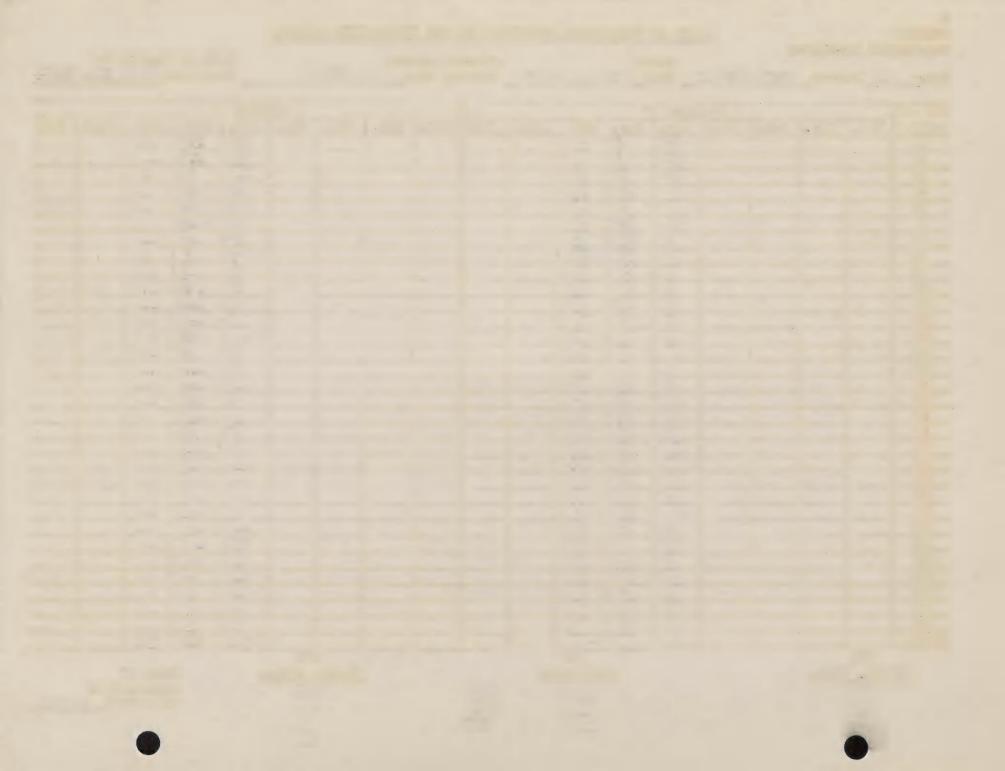
Day of				Max	imum	+		the state of the s					Mir	nimum	-			
Month	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Jul
1					19	77	34							600 MIS	A			
2					17	-	46							12	2			
3					18	20	44							885-460	400-000			
4					10	8	40							55 AND	***		7	
5					11	10	36											
6					14	10	-28							701-000	2000-0000			
7					15	14	38							900 SER	reja (da)			
8					12	26	43							GAN MIN	100			
9					24	17	46							- Carlo 1880	****			
10					26	24	47							500 1005				
11					12	16	47								400			(gightern steep in the transport of the second
12					14	17	48							200				
13					-16-	11	49		Mildense Silverining Advisor-Securit, Liller v. Bryte Stave									
14	-				17	13	50						/	48.40	-			-
15					16	16	51		un valen. Plantinenter väivesteranteri ristaan							er dael monteur von sentimen ys, myrette å		Salaha, and refer to receipt, assisted
16					30	3.0	61											
17					17	17									97			
18					16	23	- 53 - 53				- Section - Sect	-		A76 A80	1894-1854	The state of the s		
19					16	24	53							100 100				
20					15	16	50							400-100				
21					177	13	51							2			-	
22		-				12	48								-			
23					10													
24			* in tagent areason managemby areason		10-	10	-80-											
25					-18-	-12-	-53-								46.55			
26			et eta esta esta esta esta esta esta est		-14-	13	-54-							***	100			
27					16-	-18-	-53-											-
28					-16-	-80-	-52							38.48	-		1	
29					17	- 24	-83-		***************************************		entitle and special Philips and the special Committee							
30					16	26	-54							300 000				
31					10-	27	-50-								***			
otal					-83	3	-53-							9.4	13			
To	(1) otal, I	- department of the same			458	Di	(3) fferer				L	Total,	2) Minus	14	Y	Tear of		
	458 465 1478					-	2401 27 2374		2374 1577 797			1	3 7			n Gro		38



Year 1926 Forest Ditterroot Unit Dring Range Station Used Manilton

Date of Vegetative Readiness May 11, 1925

Day of				Max	cimum	+								imum	_			
Month	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Jul
1					65	27	20							8	400-400	44 100		
2					21	32	26							2	-	10.46		
3					13	34	30							W	1			
4					30	33	25							40 M	100-104	3		
5		-			24	24	377				Annual An			Major esco.	400	CONT. SHIP		
6			7		24	27	29							4	400.00	40.44		
7				mant in pilotoperatus via der Aussand (Statute Addition	10	35	31							6				
8					6	38	30							77	700 e/s	7		
9					6	42	34							7_	arter mine	100 MB		
10				and the same of th	3	42	35							19	400 mg	40-700		
11					5	36	350							7	-			-
12					8	27	-35_							4	-	400-400		
13					8	-51	-38-							24_		##		
14					16	33	34							8	743x 3686			-
15					18-	-30-	53							2				
16		-			14	35	37									400 pm		
17					10	28	38							6		10% onto		
18			1		26	22	46							3	-1	-		
19					21	22	46							8	1000 M/M	100 AV		
20					22	16	51 37							5000 Miles	201/02	400 Miles		-
21						24								3	2	40-40	-	
22			-		29	27	36							3000-1000	100 AM	599-400		
23					23	16	44							1	***			
24					30	17	41					-		4	100 AGE	-		
25					24	19	34							- 400-405-	## ITT			
26					22	25	40							9	400 min	100 WS		
27					37	26	46							6	-			
28					30	10	48							MIN-COR	3	-		
29					23	28	43							40.45	5	~~		
30					23	98	30							1000 S005	-	000-000		
31					23	32	51							3	3	60-60		
otal					570	880	1129	-						134	15	10		
To	(1) otal, F 859 1129	Plus,				<u>D:</u>	(3) ifferen 2558 159	nce	2399 1577 822			Total	2) Minus	2,	T	Year of		139-



G STUDIES

DATE OF VEGETATIVE READINESS BY AIR TEMPERATURE METHOD

Vegetative Readiness

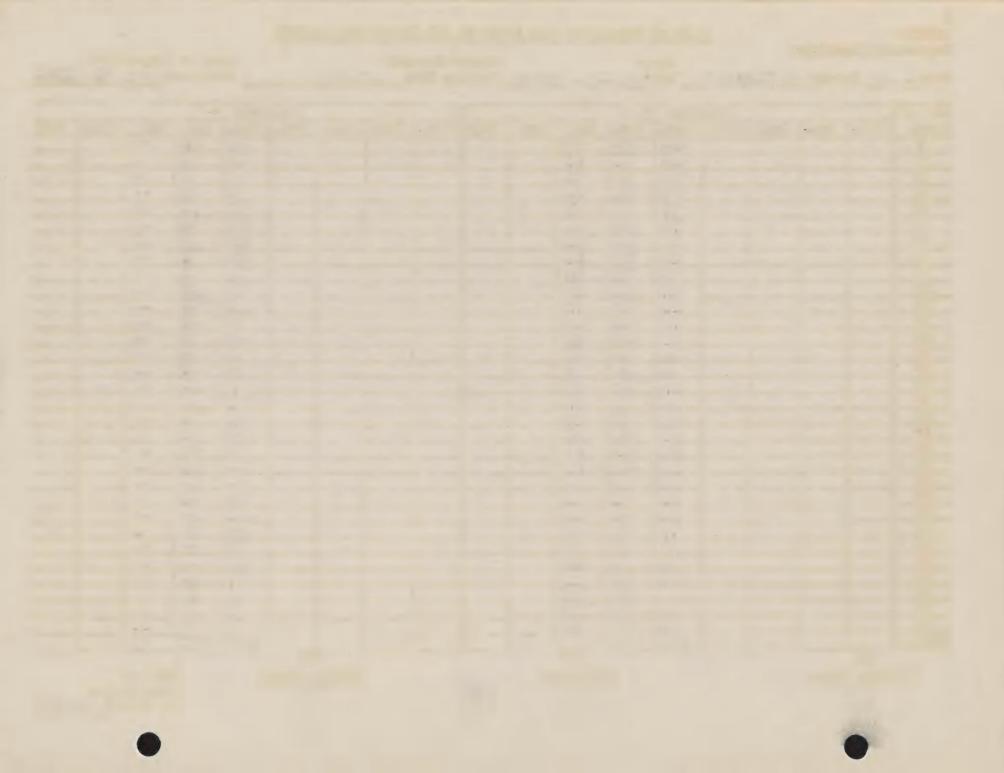
Year 1938 Forest Bitterroot

Range

Unit Spring Range Station Used Resident

Climatological

Day of				Max	cimum	+				Name and Address of the Address of t	angulars Chinasanous salvabranous 15 hours		Mir	imum	-			
Month	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Jul
1					22	3	38							10	12	-		
2					- 25	1	44							10	15	- MIN - AND		
3					26	8	41							12	7	Mark Aller		
4			process of markets plans, since the contract of the contract o		20	12	35		***************************************					4	1	300-300-		
5					9	8	24				1	-		12	3	2		
6					16	14	29							9	4	-		
7					22	25	25		The same of the sa					10	9	3		
8					19	20	15							37	1	100-100-		
9					16	36	13							5	4	-		
10					22	39	24	1						8	3	-		
11					15	38	31							5	1000-1000	660 G.M.		
12					18	31	34							3	**	-		
13					25	34	42							-	3	1000-0000		
14					26	44	40							6	1	anajorita.		
15					32	49	37							7	**	-		
16					28	477	33							3	404-408	100.000		
17					17	44	32							3	40.00	494-400		
18					23	47	38							1	alle tok			
19					26	39	43							6	3	- Marie Andre		
20					25	33	29							9	***	-Million andries		
21					29	20	36							40.00		Apple and		
22					29	29	38							10-101	7	400 miles		
23			-		25	35	35							400.000	2	46.50		
24					15	40	33				de any one design with the section and a section			3	300-000	4904 4504		
25					15	42	30							12	100.000	3		
26					8	47	39							12	-	-		
27					3	50	34							12	- 1000 cmc	#5 min		
28					3	83	36							20	-	***		
29					9	40	39							10	***	985-1094		
30					B	42	29							6		10-10-		
31					4	*	37							6	X	-		
Total					584	976	1032							211	80	8		
To	(1) otal, F 584 976	3				Di	(3) fferen	*	2293 1877 716	7		Total,	2) Minus	<u>.</u> ,	E	Tear of Examina on Grou	tion	930

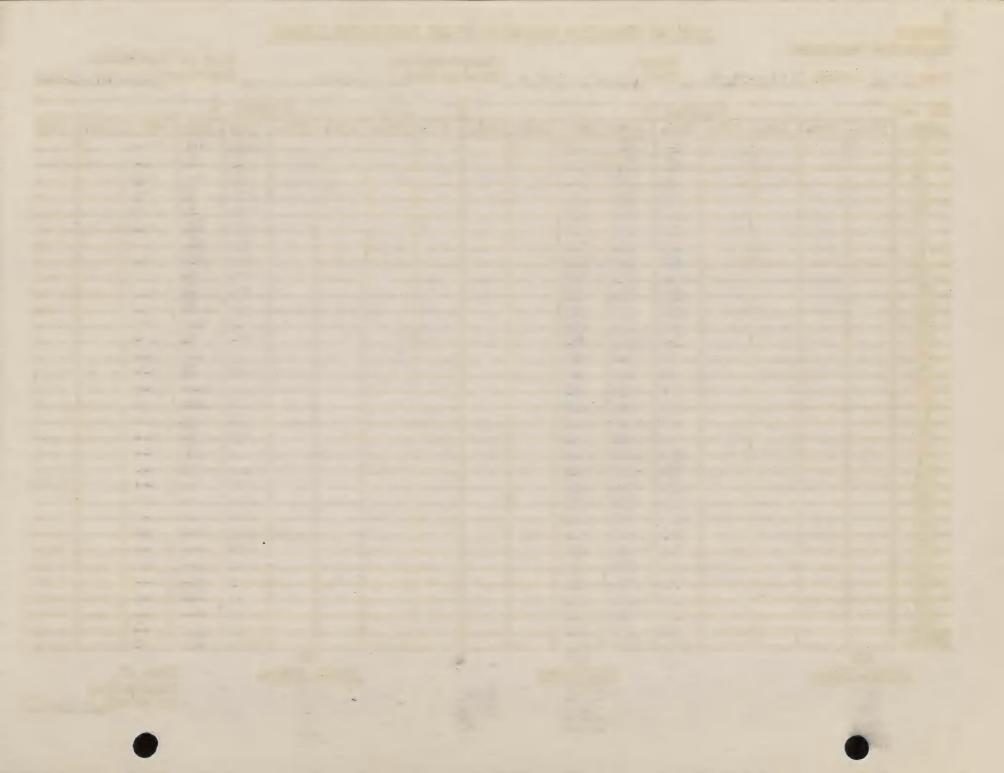


Range

Climatological

Date of Vegetative

Year 1007 Forest Unit Station Used Readiness Readiness Minimum -Day of Maximum + May June July July Nov. Feb. Mar. | Apr. Month Mar. Apr. June Dec. Jan. Nov. ! Dec. Feb. | May Jan. 14 23 13 19 3 16 16 20 5 20 10 6 7 12 20 10 9 11 10 10 11 10 12 13 40 14 15 16 17 18 19 20 18 10 21 16 22 18 24 25 15 26 27 10 28 29 30 31 Total (1) (2) Total, Plus, Total, Minus, Year of Difference Examination * 1941 * 1602 on Ground + 1577 - 339 697 * 1602 766



DATE OF VEGETATIVE READ INESS BY AIR TEMPERATURE METHOD

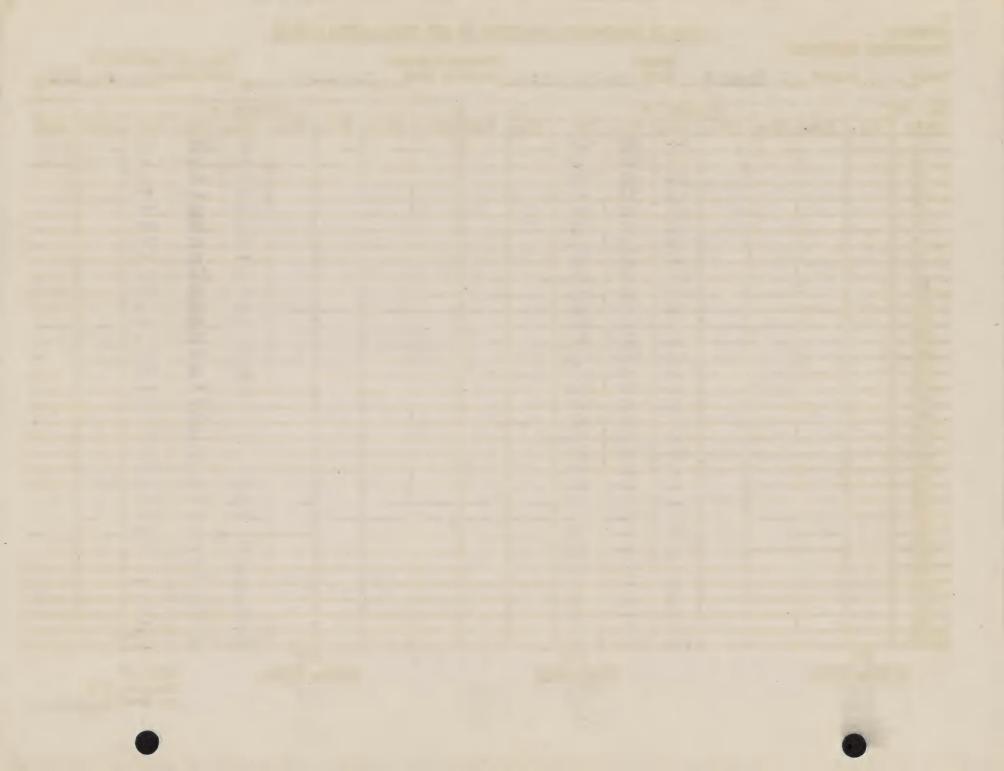
Vegetative Readiness

Range

Climatological
Station Used

Date of Vegetative

Year Forest Bitterroot Unit Station Used Readiness Readiness Readiness Minimum -Day of Maximum + Month Mar. May July Feb. Mar. May June July Nov. 1 Dec. Feb. | Apr. | June Nov. Dec. Jan. Apr. Jan. 25 34 17 --2 15 3 12 28 24 -4 -5 17 100-100 6 13 21 8 51 -7 11 8 13 20 50 9 idda.white 10 17 11 14 47 -100 100 12 33 16 400 - 400 · 13 30 11 19 9 -14 20 4011 603 15 400 15 21 12 -16 17 18 16 168 NO. 19 16 48 400 1000 20 19 51 21 67 22 31 55 Mile NA 40 40 45 24 50 19 ages adm 25 16 state (Site 26 56 10 11 -27 46 400-402 -28 12 29 15 40.00 30 49-100 31 37 -Total 176 (1) (2) (3)Total, Plus, Total, Minus, Difference Year of Examination 566 * 2612 + 2342 176 on Ground 694 - 270 80 1353



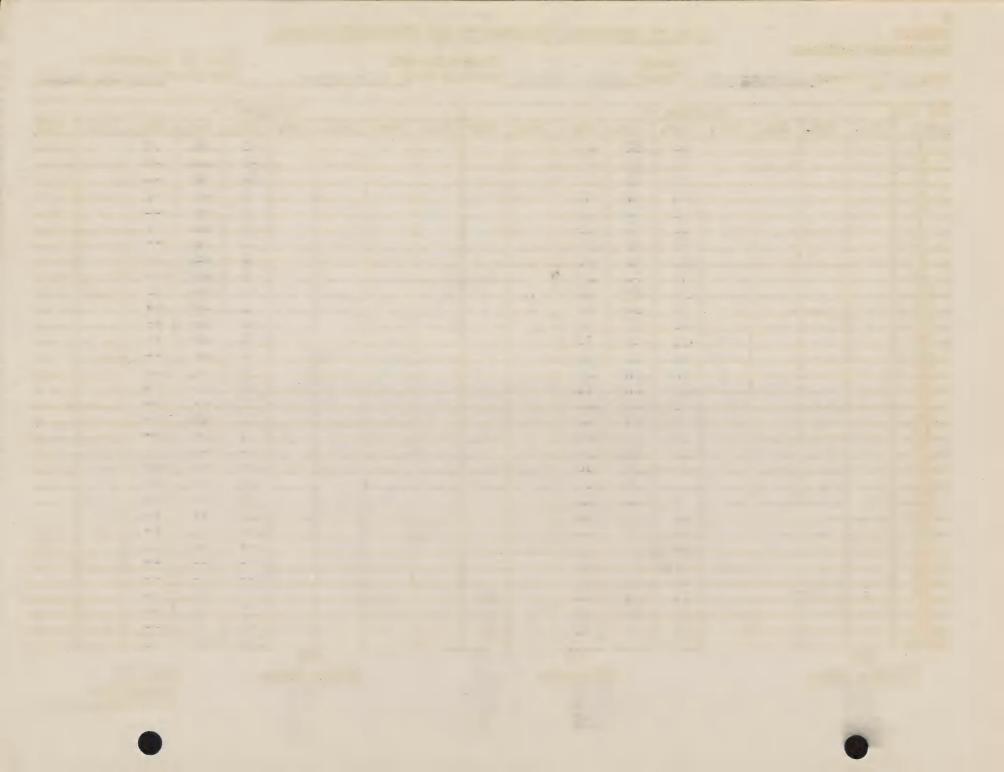
Year 1920 Forest Mitterroot

Range

Climatological Unit_Spring Range Station Used_

Hamilton

		eleksiyksseensa roossuurus ja ja ja saassuurus kar																
Day of				AND AND AND ADDRESS OF THE ADDRESS O	As also de 2 de Nobele A de	+		-			-			nimum				
Month	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
1					13	23	20							3	10	4		
2					18	29	30							-	6	40.00		
3					16	32	23							40.4%	-	-		
4					24	26	20							-		- 5		arreamy to a resemble Militage
5					22	25	19								5	-		
6					19		23							3	12	5		
7					23	20	27							7	5	-		
8					20	12	30							11	5	1		
9					31	18	28			The second secon				6	20	and the		
10					23	14	29							***	8	5		
11					6	16	38			The same of				1	6	100 AND		
12					3	17	47							4	8	-		
13					11	24	46							4	5	(100 AUG		
14					11	23	30							10	100 400	-		
15					15	23	38							0	4	3		
16					19	38	46							8	-	***		
17					78	29	30			A Appell				7	400 405	100 Mar.		
18					20	27	43							8	20	- SEE-1802-		
19					24	26	46							4	4	-		
20					23	24	50 °								-	-		
21					18	28	53							~		40.40		
22					0	32	54							9	8	Align graps		
23					4	32	55							3	-	-		
24					10	23	45							16		400-000		
25					11	30	22							4	7	***		
26					22	37	22							-	3	2		
27					32	37	26								-	-		
28					26	36	29							-		400-400		
29					9	21	36							7	***	444		
30					27	20	44							13	2	-		
31					20	X	51							8	X	-		
Total					517	-	1113								116	25		
To	(1) otal, E	1				Di	(3) fferen		2054	li .		Total,	143	5,	F	Tear of Examina		5.0
	706 1113 2:						284 054	*	1577 477	7		**	25 284			•	2.0	



Year 1930 Forest Bitterroot

Range Unitspring Range

Day of				Max	cimum	+							Mir	imum	_			
Jonth	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Jul
1					record return	30	41							14	3	M0:484		
2					CONTRACTOR OF THE PARTY OF THE	34	50							28	100 Aug.	100 100		
3			-		3	35	47							26	3	160 (00)		
4					14	32	28							9		Sales Sales		
5					14	41	36							6	A605-1000	rego-regae		
6					10	44	30							2		400 100		
7					16	45	24							11	-	AND HAS		
8					12	41	22							2		200-400		
9					11	32	23							6	4900-1400-	-		
10					18	38	29°							3	100 - 100 k			
11					29	40	36							4	-			
12					28	42	35							-	-	NAME OF TAXABLE		
13					13	41	39							10	***	7905-9909		
14				,	4	30	41						,	4	40.00	190-100		
15					6	28	39							13				
16					12	26	40					-		10		ALC: 400.		
17					9	29	41							21		1000 1000 ·		
18					17	31	39							12	6	-		
19					21	30	38							100 mil	-			
20					17	37	45							***	1000 1000	900.000		
21					13	43	39							400.400	40-40	100 000		
22					12	41	22							500 460	200 AME	-		
23					10	44	28							5				
24					13	42	50							3	- 1000 - VIII-	8		
25					21	31	33							-		***		
26					19	30	41							100 (0)	ing sale	AND THE PERSON		
27					14	31	51							2	400-400-	-		
28					27	26	52							-	1000-000-	-		
29					29	25	48								-	400 400		
30					27	35	43							77	-	-		
31					19	26	28							13		-		
otal					448	1052	1158							211	12	5		
To	(1) otal, F 448 1052 1158	Plus,					(3) fferen 2058 228 2430	+ +	2430 1577 853			Total,	2) Minus	5,	I	Year of Examina on Grou		938



Year 1931 Forest Bitterroot

Range Unit

Spring Range

Climatological

Station Used Hamilton

Date of Vegetative Readiness May 11, 1931

Day of				Max	cimum	+							Mir	imum	-			
lonth	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Jul
1					23	16	44							4				
2					29	13	42								5			
3		,			32	21	33						·		11			
4					28	33	37							8	6			
5					4	31	41							15				
6					5	31	51							21				
7					9	40	48							16				
8					23	17	22							15	4	CENT CAMP		
9					20	29	28								1	6		
10					23	25	37							900 con-				
11				¥	16	38	48°											
12					21	35	53								3			
13					23	33	60											
14					28	21	58							10		****		
15					35	27	49							***	2	out on-		
16					33	37	47							3	3			
17					25	37	22							6				
18					22	21	20								7			
19	400		Name of Street, Street		22	20	24								1	ou 100		
20					22	22	24								13	000 000		
21			, .		23	21	33								2	4		
22					15	4	48								5	-		
23					17	22	47							3	12	****		
24					23	28	53							8	8			
25					19	33	49							6	40 %	000 TO		
26					-	36	48							26	2	000 mg		
27						39	40							27				
28					14	38	41							9	garb MMIL			
29					16	39	46							9				
30					18	42	55							4		-		
31					19	X	52							-	X			
otal					607		1310							190	85	10		
To	(1) otal, I	the state of the s					(3) ifferer 2765		+ 2480			Total,	2) , Minus 90 8 5	3,]	Year of Examina		

848 1310

+ 903

+ 2480

10 285



Year 1932 Forest Bitterroot

Range Unit Spring Range

Climatological Station Used Hamilton

331

Date of Vegetative Readiness May 18, 1932

Day of				Max	cimum	+							Mir	nimum				
lonth	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Jul
1					8	31	31							2	000 mas	AND 440		
2					9	24	31							5	2	m44 mpp		
3						22	29							17				
4						25	22							21	4			
5					8	16	33							11	-3			
6					9	23	37							3	5			
7					4	29	41							14		00 TO.		
8						23	45							26				
9						24	47							29	10	-		
10						37	47							26	4			
11						40	47		8					27				
12					4	45	54							26		-		
13					9	46	51							22				
14					23	42	46							4				
15					18	32	32							1	7	3		
16					17	32	38							16				
17					15	27	51			-					3	000 000-		
18					21	25	48°											
19					18	23	47							-		CORD SAIR.		
20					19	13	44							1	2	200 SEE		
21					13	9	38							4	4			
22					14	17	26							4				
23					15	26	27							1				
24				Y	20	28	29								405 103			
25					11	32	24							1	3	-		
26					12	28	19							2		1		
27					20	30	25								11			
28					19	28	26											
29					16	24	33							1				
30					22	31	25								5			
31					34	X	33								X			
otal					378	832	1126							264	63	4		
To	(1) otal, P 378 832	lus,				<u>D</u> :	(3) ifferer 2336 331 2005		+ 2005 + 1577 + 428			Total 26	2) Minus 4 3	5,	E	Tear of	f ation und less	3

Year 1933 Forest Bitterroot

Range

Unit Spring Range

Climatological

Station Used

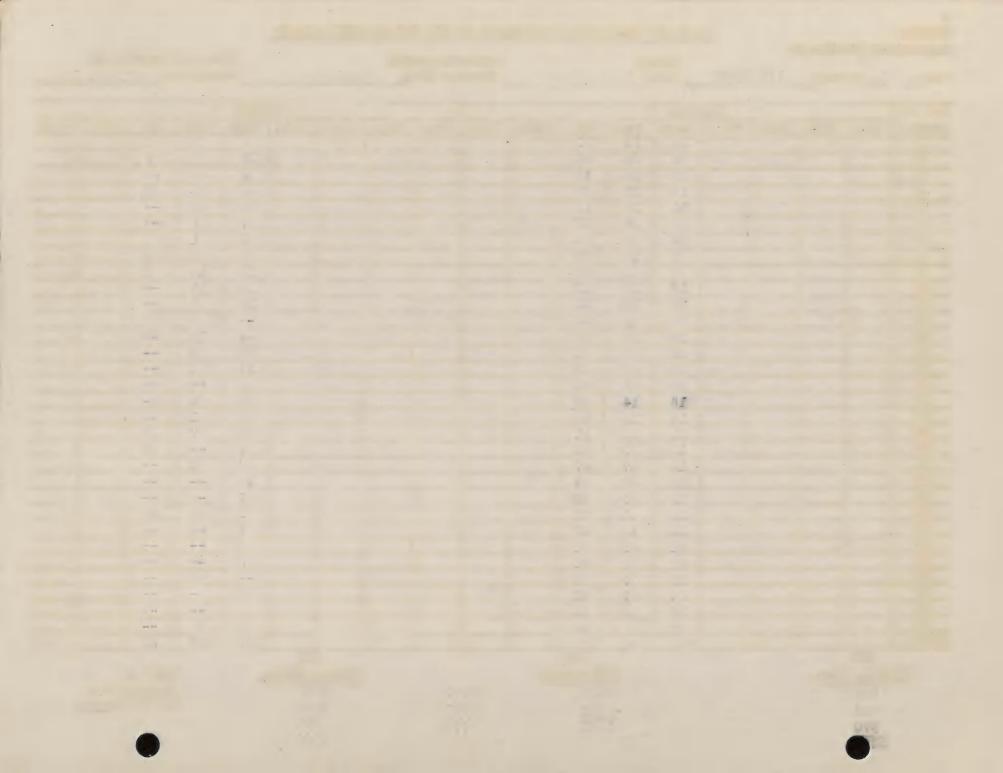
Hamilton

Date of Vegetative

Readiness May 23, 1933

Day of				Man	cimum	+			No. of Concession, Name of		-		Min	nimum	_			
Month	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
1					14	23	29							6	8	4		
2					21	33	24							12	2	3		
3					15	28	18		-					4				
4	The second second				12	17	20							8	12	2	1	
5					11	28	19							4	9			
6					13	27	21							9	1			
7					14	18	24							3	1	1		
8					8	12	25							9	7	5		
9					8	9	20							18	14	8		
10					17	13	17							14	11			
11					29	16	22							10	7			
12					28	13	30								5	7		
13					14	20	36								13			
14					19	37	41							5	3			
15					20	37	35							11	1			
16					18	22	24							6				
17					16	14	33							2	2	~		
18					16	19	28							5	1	000 ess-		
19					21	20	31							5	7	4		
20					19	19	38							5		2		
21					10	37	37							6	5			
22					12	39	24							10				
23					13	39	290							11				
24					13	41	35							9				
25			****		19	42	47							7				
26					21	39	48							5				
27					23	40	26							3	-			
28					25	39	38											
29					24	29	53							2				
30					23	18	53							5				
31					17	X	45							3	X			
Total					533	788	970							197	109	36		
To	(1) otal, P 533 788 970	lus,				D: +2	970 (3) ifferen 291 342 949	ce	+194 +15 ¹ + 3 ¹	77		Total,	2) Minus 97 09 36	5,	I	Tear of		

36 342



Range

Climatological

Date of Vegetative

Year 1934 Forest Bitterroot

Unit Spring Range

Station Used Hamilton

ReadinessApril 24, 1934

Day of				Max	imum	+				spin change			Mir	imum	-			
Ionth	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Jul
1					22	19	25		•						1			
2					27	10	31		1.					90-90	7	2		
3					22	19	38							1	11	3		
4	The state of the s				25	27	47							400 mp	6			
5					18	35	48							2	1			
6					14	40	50							-	600 cm-			
7	and the second s				18	40	50		in the second					4	2			
8					24	43	51							4	-			
9					27	35	33							6		an ***		
10					29	35	42							8		MIN 000-		
11					38	38	43							7	000 spc.	GRA 995		
12					40	43	36							-				
13					41	45	42							3		3		
14					36	36	53							4	2			
15					36	30	67							-	9	-		
16					35	26	52								-			
17					22	36	48							14				
18					37	40	42							11	ans 1980			
19					35	42	45							6		ann 400		
20					33	47	43							-				
21					24	49	40								-	3		
22					24	48	49							-				
23			a in the second		24	48	50							6	GEN 744	900 mm.		
24					24	490	68							17		-		
25					33	36	69							9	***			
26				halipping and a second a second and a second	30	38	67							6	CASE CASE.			
27					31	46	60											
28					28	46	55							1				
29					28	32	52											
30					27	29	43											
31					20	X	44								X			
otal					872		1483							109	39	11		
To	(1) otal, I 872	Plus,					(3) ifferer 3462	nce	+3303			Total.	2) Minus	<u>.</u> ,		Year o		

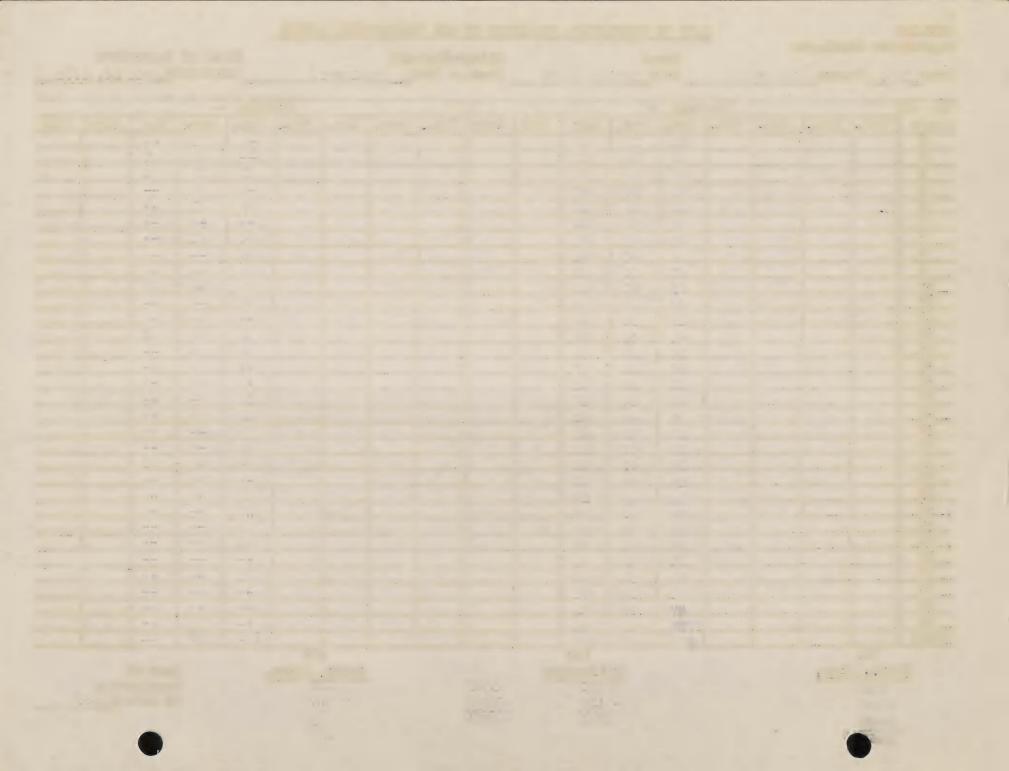
1107 1483

- 159 +3303

+1577

39 159

on Ground 1938



Year1934-35Forest Bitterroot

Range

Unit Spring Range

Climatological

Station Used Hamilton

Date of Vegetative Readiness May 21, 1935

Day of	f Maximum +									Minimum -								
Month	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
1					23	8	24				-			12	20			
2					19	7	23							12	23	6		
3				rtengih dige yili dipopi proceserano yili dirasi	16	14	29							9	11	6		
4					8	16	38				personal de la companya de la compa			4	8			
5				Production of the series and the series of t		15	29							16	3			
6			,		10	18	28							19	1			
7					18	21	29							10	7			
8					18	22	30							4	men (500)	7		
9					8	13	38							3	3	3		
10					8	22	38							6	4			
11					17	31	28							2				
12					18	36	26							3000 0005	-			
13					34	36	27								8			
14					33	30	33							1	400 ans	am m.		
15					22	28	36_							3	00% 000			
16					17	27	37							6	4	***		
17					15	28	33				Anthony a voca computer transformation with a com-			8				-
18					12	31	28							10		100 000		
19					17	36	42							9		-		
20					14	35	44							10		-		
21					11_	29	50°	-						9	2			
22					11	18	50							10				
23					19	18	36	-						9	1			
24			************		24	28	37							3				
25					20	36	38							1				
26					_3_	38	39							10	1			
27					6	30	40							12	9			
29					21	23	42							7	5			
30					18	40	45	-										
31					10	39	47							13		an an		
-					10	X	46							16	220	100 000.		
Total	11 /21				480	773	1110							234	110	22		
To	(1) otal, F 480 773 1110	Plus,				+2	(3) fferen 363 366 997	nce	+199 +157 + 42	7		Total,	(2) , Minus 254 110 22 366	3,	I	ear of		8



G STUDIES

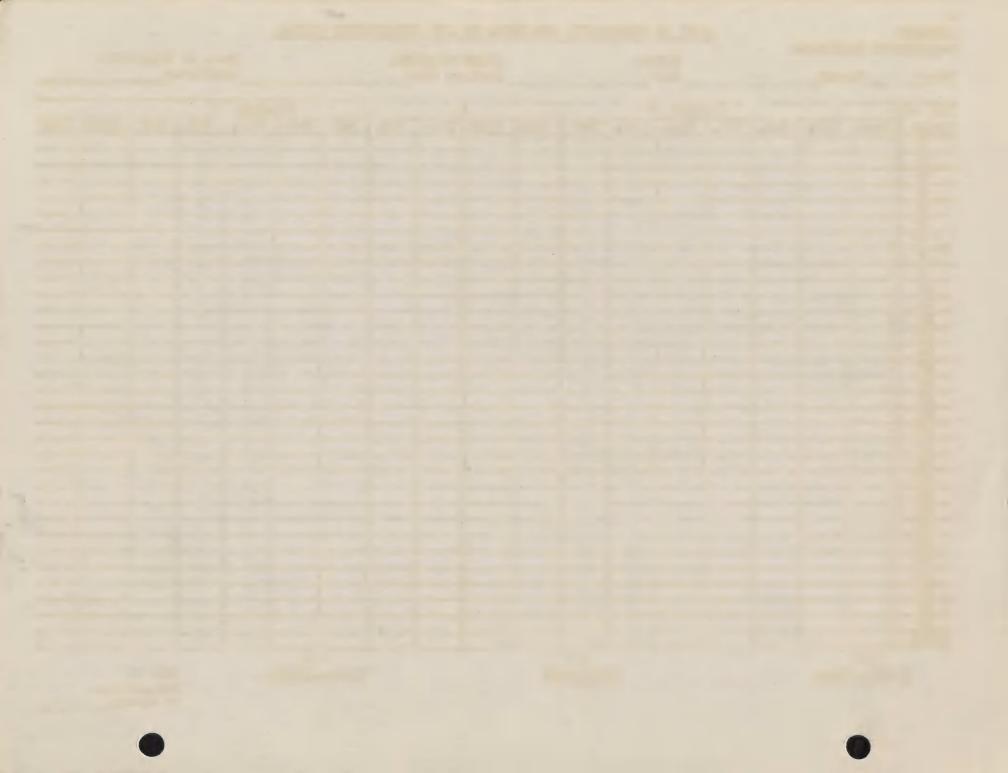
DATE OF VEGETATIVE READINESS BY AIR TEMPERATURE METHOD

Vegetative Readiness

Year 1900 Forest 11 torroot

Range Unit Climatological Station Used_____

Day of	Maximum +										Minimum -									
Month	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July		
1					20	-	30							***	51					
2					20	7	39							ant-1006	26					
3					50 mg	0	56							460.000	27					
4						0	47							4	0					
5					26	11	42							7	13			3		
6					200	20	17						4	S.	5000000					
7					25	20	34					A CONTRACTOR OF THE PARTY OF TH		7	-0±40					
8					10	25	30					turilar annu de discussion annu annu annu annu annu annu annu an		4	with talk			na hana pina pina katalan katal		
9					20	30	40							3	1					
10					10	20	50							9	- gage-visor					
11					17	40	55							6	440.000					
12					17	47	55							- Marian	126 A.M.					
13					11	40	57							Ana	A00-7886					
14					7	50								0	AND THE STREET					
15					11	47	55							5	and and					
16					26	02	36							8	- MAY 1962					
17					200	55	37							Application .	AND AND					
18					19	58	55							AMERICA	spine state					
19					20	1000	55							4	AND TOP .					
20					20	43	20							23	After dept-					
21					33	46	30							- 1000-1100	-34-7					
22					7	47	36							14	-					
23					7	40	43 55							20	1800 SH					
24					10	30	55							10	- COP-1000	1				
25					9	Application	50							16	100-100					
26			***	***************************************	7	20	62							8	1					
27					0	29	65							5.0	1					
28					6	50	50							11	2					
29					-000-753	37	61								44.00					
30		parametra and control in the control of the control			Side-one.	39	70							00	-			nterroperature and the state of		
31					500-000	374	5.5							000	101					
Total	(=1				516	1029	1490							2.25 4	Service .					
To	(1) otal, 1 016 1020 1490	Plus,				4	(3) ifferen	nce	*2696 *1577 -1119				(2) Minus	5,]	Year of Examina on Grou	ation	253		



G STUDIES Vegetative Readiness

DATE OF VEGETATIVE READINESS BY AIR TEMPERATURE METHOD

Range

Climatological

Date of Vegetative

Year1936-37Forest Bitterroot

UnitSpring Range

Station Used Hamilton

Readiness May 14, 1937

Day of				Max	cimum	+				Minimum -									
Month	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	
1			1		8	19	40							13		COM 51/0.			
2					12	19	43							7	1	ano (190			
3					19	14	47							6	8				
4					18	23	49							8	6	on op			
5					20	17	51							12	3				
6					23	16	36						-	5	7	4			
7					13	18	39							.13	2				
8					18	30	33							11	8	(MD 100)			
9					19	35	40					Same Managapharany in a coimple coupe		12	8	(III) 160)			
10					27	35	47								6	****			
11					27	22	32							2	1				
12					21	32	36							7	7	000 mm			
13					2	34	38							6		100 SAP-			
14					6	34	38°							11					
15					18	37	36							6		Cap 665.			
16					46	21	49							1	1	G00 WID.			
17					20	28	42							2	3				
18					20	28	44							6				Sect of Section Conference As a conference	
19					11	29	44					******		12					
20					13	25	28							13					
21					10	21	40							11		2			
22					8	13	44				redicarbany o place ja "katadadi parambilitarin uning kralika			14	6	**			
23					11_	16	38						e villaleni, vii oni oni oni oni oni oni oni oni oni o	2	5				
24		***************************************			15	28	47							10	4	00-00			
25			-		19	41	47							4	2				
26					17	47	40							13	-	Q00 000h		-	
27					16	48	48							15	400 MID-	000 ann-			
28					18	24	46					and the same of th		6					
29					20	18	27							3					
30					18	34	29								3			-	
31					17	X	39								X	1			
Potal	(1)				530	806	1257						(2)	231	81	7			

530 806 1257

+2593 +2274

+2274 + 697

231 81 7

Examination on Ground 1938

DATE OF VEGETATIVE READINESS BY AIR TEMPERATURE METHOD

Vegetative Readiness

Year 2007-30 Forest Ditterroot

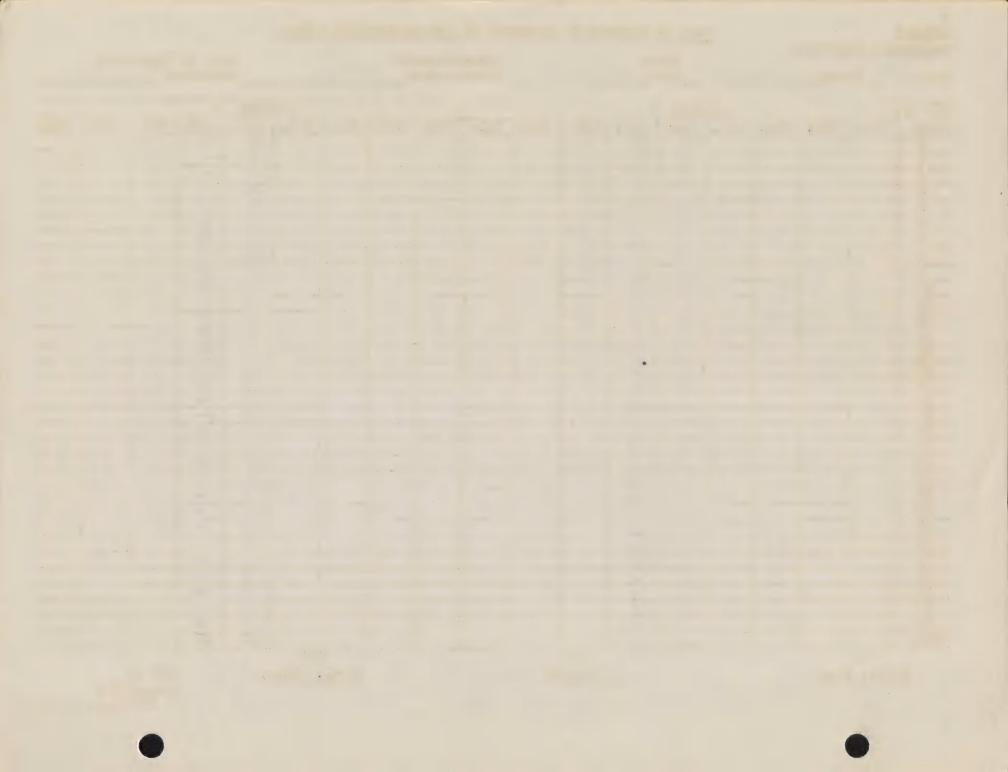
Range Unit

Climatological Station Used

Hemilton

Date of Vegetative Readiness

Day of		THE RESIDENCE THE STATE OF THE		Max	cimum	+	akier-, minemagnidayer olikundukullar erkelerifenen kinisteri			Minimum -									
Month	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Jul	
1					4	14	42							10	19				
2					11	200	Service.							7	8	G05-994			
3					10	ALC: N	AND THE PLANT							is 15% i color	4	***			
4	The state of the s				-	10	and a							The state of the s	APPER MICH.	ASSECTION:			
5					and a	Dis.	16							4	4	-			
6					4	10	24							6	994-4034				
7					5	26	21			-				35	5	5			
8					5	20	31							17	3	with the same		ton, browshire amende or de accorde t	
9					7	35	20		-	-				10	-	- Contraction of the Contraction		interingual and relative, variety chap	
10					18	24	50			-				1	600 x 1000	otto, etgo			
11					200	433	20							50	acar mile	10/01.00%			
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G STUDIES

DATE OF VEGETATIVE READINESS BY AIR TEMPERATURE METHOD

Vegetative Readiness

Year 1939 Forest Bitterroot

Range Unit Spring Range Climatological Station Used Date of Vegetative Readiness

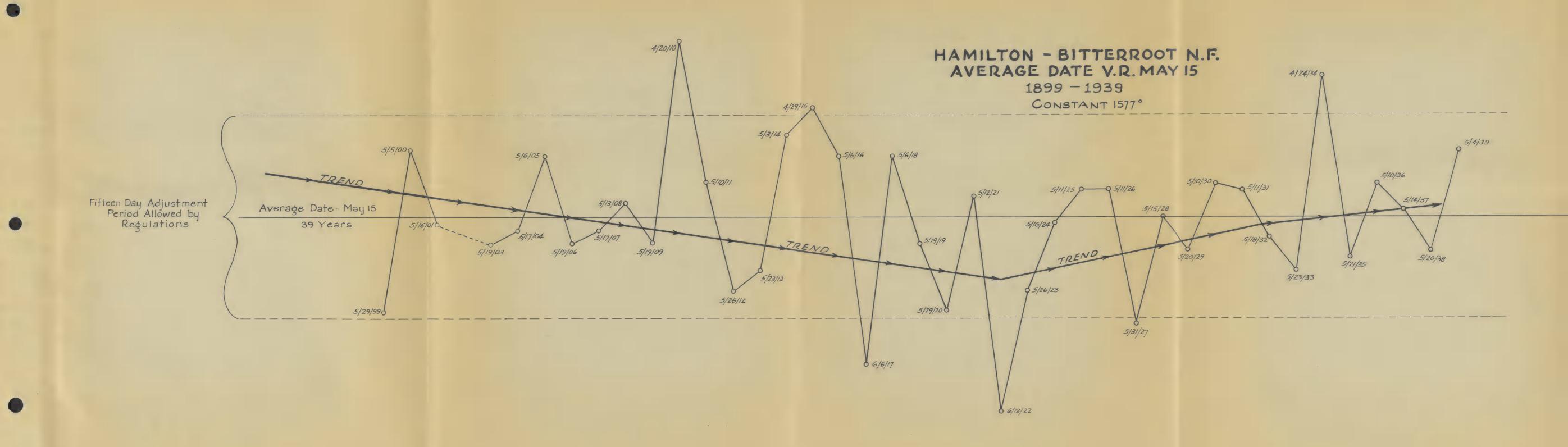
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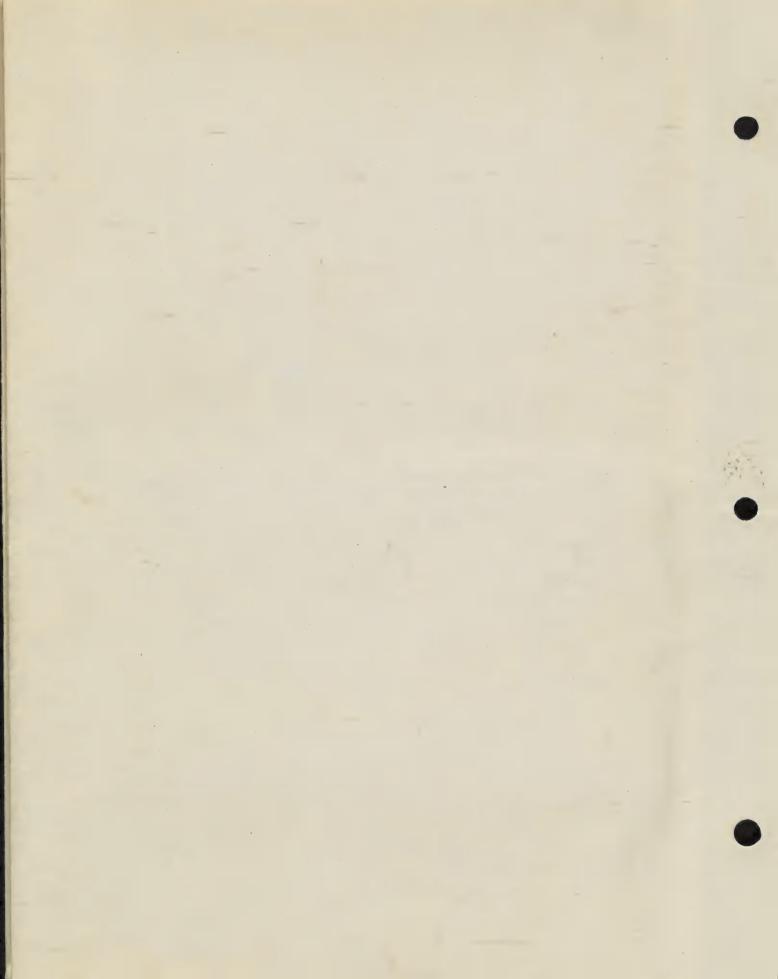
+ 734

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View of range country east of Darby showing forest boundary at about tree line. 5/22/38. (#1)



General view of range on East Fork district. Bula Basin in foreground. 5/31/38. (#2)



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View showing character of range on Meadow Creek. 6/3/38. (#3)



Typical spur ridge range (Skalkaho C&H, Darby Division). Elevation 5700'. Mature yellow pine, Idaho fescue, wheatgrass and carex found in these types. 5/28/38. (#4)



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Grassy area within mature yellow pine type ridge top, elevation 5500°. Wheatgrass, fescue and bluegrass chief forage plants. (Blue Joint C&H, West Fork Division). 5/30/38.



Cut-over yellow pine range on Three Mile Creek, North End Division. 5/25/38.



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Cut-over yellow pine range on Little Sleeping Child Creek, Darby Division. 5/26/38.



Hange readiness in cut-over yellow pine type, SW exposure, Three Mile Creek 5/25/35. Elevation 5400'. Wheatgrass, balsamroot indicators. Area unused.

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Range readiness in cut-over yellow pine type, 5/21/38. Elevation 4300', balsamroot, lupine indicators.



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Grass type on Camp-Reimel range near Big Hole road. 5/31/38. Elevation 6150'. Exposure 5%, showing bug-killed lodgepole type in background. Salt ground in foreground.



One week past range readiness, ungrazed grass type, Blue Joint CaH Unit. Elevation 5350'. 5/50/38. Wheatgrass 8" to 10", balsamroot in full bloom.

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Lodgepole range, Fales Flat Call Unit. Elevation 5100'. 5/31/38.



Lodgepole range, Meadow-Tolan Call Unit. Elevation 6800'. Beargrass - low huckelberry type. 6/1/36.



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Hange readiness Lodgepole type, Bertie Lord Greek. Elevation 5600', St exposure. Bluegrass and lupine indicators. 6/5/38.



Range readiness 5/50/36; Longepole type, Fales Flat Unit, elevation 5100'.



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Range readiness, 5/31/36. Sagebrush type, Medicine Tree Range. Elevation 6000', exposure SW. Wheatgrass, balsamroot indicators.



Cattle on overutilized open area, Fales Flat. 5/30/58.



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Cattle on cut-over yellow pine range; Bear-Big Creek Call Unit. 5/21/38.



Cattle on Medicine Tree Unit, ridge-top range. Elevation 5750'. 5/31/38.



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Cattle on Burnt Fork Call Unit, upper limits of grass type. 5/24/38.



Cattle on ridge top near salt ground on Little Sleeping Child CaH. Salted ridge tops receive heavy use. 5/26/38.



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Salt ground location on Medicine Tree Can Unit. Elevation 5450'. Intermediate elevation for this unit. 5/31/38.



Salt ground on spur ridge, East Fork Call Unit. Elevation 5500°. This salt ground is properly located. 6/3/38.

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Spring in need of development on Little Sleeping Child Cam Unit. 5/26/28.



Snow conditions 5800' elevation, McClain Creek CaH. NW exposure. 5/21/38.



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Snow conditions, Lost Horse-Trapper Greek CaH, in vicinity of Como Lake. Snow line marks upper limits of cattle range. Elevation of snow 5000'. 5/22/38.



North slope Eight Mile Creek, showing steepness and unusability of north slopes. 5/23/38.

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Creek bottom, Sammill Creek. No grazing in this tangle. This is representative of many of the creek bottoms on the Bitterroot. 5/24/38.



Mational forest boundary. The area inside the forest is depleted. Burnt Fork Call. 5/24/38.



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Phase the select seen as the contest and the



overutilized ridge top, Little Sleeping Shild C&R. 5/28/58.



Typical side draw on yellow pine range. Cattle gain access to the ridge ranges through these draws. Also used for water. 5/28/58.



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Typical yellow pine range land, Skalkaho CaH, located at head of side drainage. This area is heavily used by elk in spring and fall. 5/28/38.



Frank Cash ranch, Skalkaho Creek. A successful ranch unit. 5/28/38.



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Fred Wetzsteon ranch, East Fork of the Bitterroot. This ranch is dependent upon forest range for summer pasture. 6/3/38.



Typical ranch on West Fork of Bitterroot. All available bottom lands are used for bay. 5/80/35.



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